

1. Introduction

This document supplements the paper, ‘**Improving the gene-structure annotation of the Apicomplexan parasite *Neospora caninum* fulfils a vital requirement towards an *in silico* derived vaccine**’. It contains descriptions of questionable genes and in particular, genes with questionable start codons (i.e. noncompliant).

Questionable start codons are those that do not fulfil the expected ATG context as described in the paper. The hypothesis, in brief, is that a compliant start codon is the first ATG encountered in an mRNA that has an optimal context of either A..ATG or G..ATGG or a suboptimal context [CT]..ATG[ACT OR the start codon is the next ATG following the first ATG encountered with a suboptimal context. Any other context for the ATG start codon is considered a noncompliant gene.

The document is in three parts:

PART I lists the questionable genes per chromosome

e.g.NCLIV_000230|TCAAATGGAATGAGTGGAAT|TCAAATGG

Where columns = gene/ToxoDB ID, ATG context of annotated stop codon (-9 to +10 where ‘A’ in ATG is at 0), context of first ATG upstream from start codon (-4 to +3 where ‘A’ in ATG is at 0)

PART II presents, within a section delineated by #s, the analysis results for each questionable gene: First in each section is the current annotation. It shows the ID, strand source (+ = forward, - = reverse), number of exons, and the ATG context of the start codon. Followed by each exon in the mRNA consisting of start, end, and length measured in base pairs (bp). The exons are listed in ascending order along the chromosome. Note that for a reverse strand mRNA the last exon contains the start codon and the first exon contains the stop codon, e.g.

```
ID=NCLIV_001090      -      7      TCGCCCCTGATGGCGCGCTG
    926052,926333,282
    926710,926934,225
    927256,927423,168
    927790,927993,204
    928255,928975,721
    929945,930063,119
    930277,931221,945
```

If there is any RNA-Seq evidence that matches the current annotation it is also shown. A perfect match is indicated by the word “EXACT”, e.g.

```
ID=NCLIV_001090      -      7      TCGCCCCTGATGGCGCGCTG
    926052,926333,282,END:Starts:925084-925137-925141-
    926710,926934,225,EXACT,AG-GT
    927256,927423,168,START: end 146 AG-GT
    927790,927993,204,EXACT,AG-GT
    928255,928975,721,EXACT,AG-GT
    929945,930063,119,EXACT,AG-GT
    930277,931221,945,START:Ends:934102-931942-931933-
```

Columns = Start boundary of exon, end boundary of exon, exon length measured in bp, match status (see below), flanking sequence (INTERNAL exon = AG-GT or AG-GC) i.e. The AG or GT implies exon is flanked by canonical splice sites.

Match status (see Figure 7 in paper):

EXACT = RNA-Seq exon precisely matches both the start and end boundaries

START = RNA-Seq exon precisely matches the start boundary but not the end boundary (the difference between the end boundaries is specified by a numerical value (a negative value indicates the RNA-Seq end boundary is located before the annotated boundary). The RNA-Seq exon flanking sequence is also shown.

END = RNA-Seq exon precisely matches the end boundary but not the start boundary (the difference between the start boundaries is specified by a numerical value (a negative value indicates the RNA-Seq end boundary is located before the annotated boundary). The RNA-Seq exon flanking sequence is also shown.

OVER = RNA-Seq exon extends beyond both the start and end boundaries.

WITHIN = RNA-Seq exon is totally within the annotated exon

The exons are listed in ascending order along the chromosome. Note that for a reverse strand mRNA the last exon (end boundary) is the start codon and the first exon (start boundary) is the stop codon.

There were three independent RNA-Seq replicates of *N. caninum*. Therefore there can potentially be three separate transcript components from each sample. Perfect case scenario is when all three transcript components (e.g. an internal exon) match exactly the start and end boundaries of the current annotated internal exon. The current annotation does not contain untranslated regions (UTRs). The transcripts assembled from the replicates include UTRs i.e. the start and end components of the transcripts contain start and stop codons trailing or preceding the UTRs respectively (See Figure 2 in paper). The length of the start and stop components from the three replicates ALWAYS vary despite supposedly representing the same exon (reason is unknown)

e.g. The following are transcript components from three different replicates but representing the same START exon (i.e. flanked by GT)

15086,15951,866,GT,acceptor=AC	<< END same but not start << REPLICATE 1
15027,15951,925,GT,acceptor=GC	<< END same but not start << REPLICATE 2
15614,15951,338,GT,acceptor=GC	<< END same but not start << REPLICATE 3

Start and stop RNA-Seq exons in the annotation comparison are represented as follows:

15453,15951,499,END:Starts:15086-15027-15614-

22620,22922,303,START:Ends:23123-23182-23181-

Where Starts: or Ends: is the start or end locations of the three replicates.

If there is a difference between either the start or end boundaries of the annotation with respect to the RNA-Seq evidence (in particular for an internal exon) AND all three replicates indicate the same difference, the comparison annotation indicates this with the words “<< Possible error”.

A simple score is assigned to each mRNA annotation comparison e.g.

>> RNA-Seq evidence = 7/7 (100.0%)

Where 7/7 indicates that 7 exons out of a total of 7 exons for the mRNA had overlapping RNA_Seq evidence.

A BLASTN was performed using the mRNA sequence of the questionable gene. The mRNA was derived from the current annotation. If a homolog was found, the Ident and Query coverage is shown e.g.

```
>> Homology evidence = 237841972    0.0    53.2    82.05    737    Toxoplasma gondii ME49
hypothetical protein
```

Where the tab separated entries are NCBI GI for homolog (e.g. 237841972), E-value (e.g. 0.0), Query coverage (e.g.53.3%), Ident (e.g. 82.05), bitscore (e.g. 737), and Protein name of homolog.

Based on the assembled transcripts an alternative start codon is proposed if one exists (it also includes UTRs). The length of UTRs may still be questionable because the RNA-Seq exons from the three replicates vary at the start for 5' UTR and the end for 3' UTR. Nevertheless the base pair location of the ATG and stop codon is considered accurate. It also shows the old “start and end” next to the relevant exon annotation, and the new ATG context in the identifier header, e.g.

```
>> Alternative start codon
ID=NCLIV_003460    -    3    CTCAGGGCATGCATTCTTT    Ib    A..ATG
966813,967986,1174,5' UTR
964116,966812,2697,GT,START:Ends:967807-965308-967986-,Old end=966446
963482,963701,220,INTERNAL,EXACT,AG-GT
963033,963235,203,AG,END:Starts:961897-961864-961772-,Old start=963033
961897,963034,1136,3' UTR
```

If the alternative start codon is in a suboptimal context e.g [CT]..ATG[ACT], then the next ATG start codon downstream is also given. The second one is indicated by the word “Leaky”.

```
>> Alternative start codon
ID=NCLIV_006020    -    7    GGCCCTCGAATGGACGTAGC    II    [CT]..ATG[ACT]
1322593,1323045,453,5' UTR
1321243,1322592,1350,GT,START:Ends:1323045-1321758-,Old end=1321353
1320509,1320688,180,INTERNAL,EXACT,AG-GT
1319991,1320181,191,INTERNAL,END: start 78 AG-GT
1319876,1319931,56,INTERNAL,
1318721,1318908,188,INTERNAL,EXACT,AG-GT
1318412,1318518,107,INTERNAL,EXACT,AG-GT
1317850,1318006,157,AG,END:Starts:1317603-1317354-1317274-,Old start=1317850
1317603,1317851,247,3' UTR
Leaky:ID=NCLIV_006020    -    7    GGCCCTCGAATGGACGTAGC    II    G..ATGG
1322488,1323045,558,5' UTR
1321243,1322487,1245,GT,START:Ends:1323045-1321758-,Old end=1321353
1320509,1320688,180,INTERNAL,EXACT,AG-GT
1319991,1320181,191,INTERNAL,END: start 78 AG-GT
1319876,1319931,56,INTERNAL,
1318721,1318908,188,INTERNAL,EXACT,AG-GT
1318412,1318518,107,INTERNAL,EXACT,AG-GT
1317850,1318006,157,AG,END:Starts:1317603-1317354-1317274-,Old start=1317850
1317603,1317851,247,3' UTR
```

PART III presents summary reports for the comparison analysis.

A. SUMMARY of RNA-Seq evidence for each chromosome

B. SUMMARY of evidence for each gene (The evidence=RNA-Seq, Homology, and whether the gene has an Alternative start codon that is compliant)

C. GENES with alternative compliant start codons

D. Noncompliant genes that have RNA-Seq evidence but no alternative compliant start codon

E. Protein product for noncompliant genes with RNA-Seq evidence (does not include putative or uncharacterised proteins)

2. PART I – List of questionable genes

CHROMOSOME Ia

NCLIV_000030|CGTCAGCGAATGGGATTCGT|GACGATGC
 NCLIV_000190|CGAGCCAGATGGTCTCGAG|GCTCATGC
 NCLIV_000200|TTCTGCGGGATGTTCTGCTT|CTGCATGC
 NCLIV_000210|ACCAGTGCATGTCGCACCC|CCCGATGA
 NCLIV_000230|TCAAATGGAATGAGTGGAAT|TCAAATGG
 NCLIV_000280|GTCTCCGCAATGTCCGACGC|GCAGATGC
 NCLIV_000290|AGGAATCGCATGGCACCGGC|GTATATGT
 NCLIV_000320|GAAGGGGAAATGCGTCTCT|CTGAATGC
 NCLIV_000330|CTCGCCGCGATGCCTCGCGA|GCGCATGC
 NCLIV_000420|GCCGCCGCAATGACGAGCTC|TTCTATGG
 NCLIV_000450|AGTGACTGGATGGCGGATCT|CTAAATGC
 NCLIV_000490|GGTCTCCCATGGGGATGCC|CAACATGA
 NCLIV_000630|GGATCCGCGATGACGCTTCG|GGCAATGC
 NCLIV_000640|GTGGTCGGCATGCTTGTGGC|TCCCATGT
 NCLIV_000690|CTTCATCCGATGGAGTCGAT|GGGCATGT
 NCLIV_000710|GCTTAGGATATGTATTCGTG|GTAGATGT
 NCLIV_000711|TTCATCTAGGCACCC|TCGC|GTAGATGG
 NCLIV_000770|TTTGGCTTTATGGACA|ACTG|CGCCATGC
 NCLIV_000800|TTCTCAGCTATGAAGCTTCA|ICTGCATGT
 NCLIV_000810|GAAAAAGGTATGAATTTCCA|ICTGGATGT
 NCLIV_000820|TGCTGGGTGATGTCTATCG|TCCGATGA
 NCLIV_000850|GAAGTCGCGATGAGAGTTTT|IGGAAATGC
 NCLIV_001090|TCGCCCTGATGGCGCGCTG|CGGGATGC
 NCLIV_001150|CGGCGTGTGATGCCCCGGTA|ACCATGT
 NCLIV_001160|GAACCAGGGATGCCTGCAGA|GCGGATGA
 NCLIV_001190|CCCTTCGAAATGTCTGCATC|TTGGATGT
 NCLIV_001200|GGCGTCCAGATGGCTGCAGT|CAGAATGG
 NCLIV_001210|GTTTCCGCTATGATTCTTGA|ICGCCATGT
 NCLIV_001330|GGTCAAGCAATGAGGTGCACI|CTAAATGA
 NCLIV_001400|CCTATCGCCATGAGGGCGTT|TTGGATGT
 NCLIV_001460|ATGCGCGGGATGTTCTTAGG|TTTTATGC
 NCLIV_001650|CAGCTTCTCATGGAGGGTGC|CACGATGC
 NCLIV_001660|GTTCTGCCATGTCTTCAAGI|CCGTATGT
 NCLIV_001740|GTGCGGTCAATGGGCCGCA|CAAAAATGA
 NCLIV_001760|ATAAAGGAGATGAGGGACAT|IGGAGATGT
 NCLIV_001770|CTTCGCCCATGGCGCCGCA|GCGCATGC
 NCLIV_001790|GCTGAACGGATGGCCATCG|GGACATGC
 NCLIV_001840|TCGGTCGCCATGATTTCTT|GTTTCATGC
 NCLIV_001850|GAGACGCGGATGGAGCGCGG|ACGGATGC
 NCLIV_001880|AGGTTTCGCCATGACGCAACG|AGGGATGC
 NCLIV_001920|GTGCGCCCCATGGACCCCGT|GTGAATGT
 NCLIV_002000|GTCGTTGTCATGAGCTGTT|CITAGTATGG
 NCLIV_002030|GGACACCACATGGTGAGTCA|IGCCGATGA
 NCLIV_002040|TATAGCCAGATGGTGAGCCG|ACTAATGG
 NCLIV_002070|TTTTCCGCAATGCACGCTT|CIGGTGATGG
 NCLIV_002110|ATCTCCCCATGGCGACAGG|GCCGATGT
 NCLIV_002115|GCAGGCGAGATGCGAGAGGA|CAAAAATGC

NCLIV_002180|ATTGCAGAAATGATAAAACG|GTTGATGC
NCLIV_002350|GCGAGAGGGATGAAGAGCAC|GCGCATGC
NCLIV_002370|AGTCGGCAAATGGTGTTCAC|GAGAATGA

CHROMOSOME Ib

NCLIV_002480|TCCTTGGCGATGAAGGTTCG|CCGGATGA
NCLIV_002580|GCGAGTGCCATGATAGCGGC|CAAAATGC
NCLIV_002790|CTCTTTCTTATGGAGGGCCG|GCCGATGA
NCLIV_002810|GAGGAGGAGATGAAGCGAAA|TCCAATGA
NCLIV_002840|AGTCGGGAGATGTGTGAAGG|CAAAATGC
NCLIV_002860|TTGAAGCTGATGGCGAGGCG|IAGCGATGG
NCLIV_002930|GTTCTTGCCATGACGGGCGC|TCACATGT
NCLIV_003010|GTCGGGGAAATGCAACCTTC|GCTAATGT
NCLIV_003020|AGACATCCTATGGTTGGTCA|TAGCATGT
NCLIV_003150|ATCGTTGAGATGTCAGAGGC|GTCGATGC
NCLIV_003170|TTTTTCCCAATGGCTTTACT|CTTGATGT
NCLIV_003180|GAACGCGTCATGAACTCCA|GTAATGC
NCLIV_003340|AACGGCGTTATGTATCGGAG|GTAGATGC
NCLIV_003350|TCGAGCGAAATGCACGGCTC|CCAGATGG
NCLIV_003410|GTGTTCTGTATGGCTGCCTG|TTGGTATGC
NCLIV_003460|CTTCAGGGCATGCATTCTTT|IAGACATGC
NCLIV_003580|ACTGTGGGGATGTACGAAGC|CAGTATGG
NCLIV_003600|CCCGCAGCAATGCCCGGGG|TCCACATGC
NCLIV_003620|TTCGCATCCATGGACCTGAC|CTTGATGT
NCLIV_003770|GGTACTTCAATGGAGGCGGA|CAAAATGT
NCLIV_003850|TCCGCTGCTATGCGCGACTC|GTACATGT
NCLIV_003860|AATTCTGGAATGCCCTTCGC|CCGCATGT
NCLIV_003980|CTGGAAGCCATGCAACGACG|ICCCCATGG
NCLIV_004090|CGAGGCGGCATGTCAGACAC|IAAGAATGG
NCLIV_004280|CCGCGCGACATGACTGCGCT|ICGCCATGG
NCLIV_004300|TCTCAGCAGATGGACGGGA|IGTCGATGC
NCLIV_004310|CCAGCAGCCATGACGCCAAA|IGCAAATGC
NCLIV_004432|GTCATTCAAATGGCGAGAAC|CCTGATGG
NCLIV_004471|ICGGAAGTTGATGGCCGTTT|GTAGAAATGC
NCLIV_004490|TCCGACCAGATGGAAGCGGA|ICGCCATGT
NCLIV_004590|AGGCCGTTTCATGGCCGCAA|AIGCCTATGG

CHROMOSOME II

NCLIV_004630|TCAACAGTCATGAAGTTCG|TCAATATGA
NCLIV_004770|CGCGTGCAGATGGAAGGCCT|CTCTATGG
NCLIV_004820|ACCACGTCAATGGAGGACTC|CTCTATGA
NCLIV_004840|CCGCAGCCGATGGGGCCAGG|ICCCCATGC
NCLIV_004870|CTCTTTTTTATGGGGCCGGA|GCTTATGC
NCLIV_005100|CTCGTTCGCGATGCGTACAG|ATCGCATGC
NCLIV_005120|TAACAGTTAATGGATATAACC|CAACATGT
NCLIV_005130|CAAAGACACATGGAGGCGCA|GAGGATGC
NCLIV_005280|CCAGTGCAGATGGGAGCACC|ITGTCATGC
NCLIV_005300|GCGCTCTACATGGCTACCCC|IGCGTATGG
NCLIV_005340|CTGCCGTTTCATGGCAGAAGA|TTCTATGT
NCLIV_005440|CGACCGCGGATGGTCCGCGT|IAAACATGG
NCLIV_005550|TCGAGGGAAATGCGCCGGGG|IAGCCATGG
NCLIV_005610|CGCAATCACATGGGAATCGT|AACGATGC
NCLIV_005640|GAGCCTGCGATGCTCTCCGA|TCACATGT
NCLIV_005650|CGACGGGTCATGAGCTGGA|AIACGAATGA
NCLIV_005660|CGACAAGAAATGTCTTTCAG|IGCAAATGG
NCLIV_005680|CTGTTTGCGATGTCGTGGCG|IATGCATGC
NCLIV_005720|AGCTCAGCAATGTCGCAGAC|IGCGCATGT
NCLIV_005850|CGCTGGTACATGGGGGCATG|GCCAATGG
NCLIV_005920|GCTCCGTAAATGGCGTCGTT|GTGCATGC
NCLIV_006020|GGCCCTCGAATGGACGTAGC|CCAGATGG
NCLIV_006040|TGGAAGTAATGCTCCGTCG|AACGATGG
NCLIV_006100|TCGTCTTCAATGGAGGAAA|ICTTCATGT

NCLIV_006140|GCCTGATCCATGGCAGACGT|ATTAATGC
NCLIV_006190|TTGGGCGCGATGTTTCAGTT|GCGCATGC
NCLIV_006210|TCTGTCCCCATGGCGTCGCC|TTTCATGC
NCLIV_006280|CTTCCCTCGATGGGGGATCC|GTGAATGG
NCLIV_006330|CCATGCGCCATGTGACCAG|CTCCATGC
NCLIV_006340|GAGCTGCGGATGGTCTGGGG|GTACATGT
NCLIV_006400|CCCACCCCAATGGTCAACAC|GGGGATGC
NCLIV_006410|GTGGAACAGATGGTAGTCGA|GGACATGG
NCLIV_006520|GGCTTCGCAATGAGGAACTC|GCAAATGG
NCLIV_006590|CTGGTGCAGATGGCGGTTGA|TCACATGC
NCLIV_006610|GTCGTGCAAATGTACCCGAA|CGGTATGG
NCLIV_006650|CGCTCCGCGATGCCGAAAAT|GGCGATGT
NCLIV_006670|GCGGAAGCGATGACGGAAAC|GAAGATGG
NCLIV_006690|TTTCTCGCAATGACCGAGAA|GAGAATGC
NCLIV_006760|GACAGCGCAATGCGCCTGTG|TAATATGC
NCLIV_006820|GCTTGCGTCATGAACGGCTT|TTGTATGT
NCLIV_006840|GTCGTCTCTATGGCACCGCA|ACCCATGG
NCLIV_006850|TAGAAGCTCATGGGCGGTCA|ATAGATGC
NCLIV_006870|CTCCTGCCGATGGAGGTCCG|TTCCATGC
NCLIV_006880|TCTCGCGCAATGTTGCGACT|TCGCATGC
CHROMOSOME III
NCLIV_006930|AGTCTGGCAATGACAGCAGA|CATGATGG
NCLIV_006940|CCGTCTCAAATGGCAAGAGT|ACGTATGG
NCLIV_006960|CTCCACTTTATGGGGGCTAG|TTAGATGT
NCLIV_007090|CTCTCTGCAATGCTCCGTCT|CGCCATGT
NCLIV_007100|CCGGCGGACATGTTGCCTGA|GAAAATGC
NCLIV_007105|TCATCAGCGATGCCTTCAGT|CCACATGT
NCLIV_007160|TTTTCTGCGATGAAGGAAAT|TCCCATGC
NCLIV_007220|TCCTCGCCAATGGCGTGGCC|TCTGATGC
NCLIV_007270|AGAAAGCAAATGGAGGCCGA|GAGTATGA
NCLIV_007410|TTGCGGTCAATGGGCTACGA|CCCAATGA
NCLIV_007570|GGGTCCCCATGGAAACGGC|GTTTATGC
NCLIV_007600|GGAGTCCCTGATGGGAACGCC|CTGCATGC
NCLIV_007610|CTTCTGTGATGGCGAGAGC|TTCATGC
NCLIV_007620|GTCTCCTCAATGGATTTTGG|GTGTATGT
NCLIV_007720|TTCTAGGGAATGCAGTGTCC|GATTATGA
NCLIV_007740|CCTTCGCTGATGGATCCGTA|TGGAATGG
NCLIV_007750|GTTTCGCGACATGCAGGTGGA|ICGTCATGC
NCLIV_007820|AGGGTCCATATGGTCACAGT|TTTCGATGG
NCLIV_007970|TTTTACCCCATGGATACCAA|CATTATGC
NCLIV_008000|ATTCCGGAAATGTCGAGTTC|GTGCATGC
NCLIV_008010|CGAGGCCCAATGGAGAAAAA|ACGAATGC
NCLIV_008040|TAACCCGGTATGCAGGCAGC|TCCGATGT
NCLIV_008050|CTGCTAGCTATGCAAAGTAG|ACTAATGG
NCLIV_008140|CGCCTGTAGCCGCCGCTTC|TGGTATGT
NCLIV_008150|TTAAGACTCATGGTAAGAGT|GTGCATGC
NCLIV_008200|CCGGGAGAGATGCAACGAGC|GAGTATGT
NCLIV_008260|TCTGCCCGAATGGAGGGTGC|TCCGATGC
NCLIV_008360|CGATCTGCAATGCACATCGC|TTCCATGA
NCLIV_008440|TCCTCCGGGATGCGCTGCGG|AAGAAATGC
NCLIV_008600|AGCAGCGTAATGCCGGTCTC|CCCCATGC
NCLIV_008670|GTCTTCGCCATGTCGGTGGT|GTTCATGT
NCLIV_008750|ACAACAGGCATGAGGGCTAC|GCAGATGT
NCLIV_008760|GTTCAAGCCATGATACATAG|GGTAATGG
NCLIV_008870|TCCACCGAGATGAGCCCTAA|GCTCATGT
NCLIV_008960|TTCTAGTCAATGGAGAGCGA|CGCTATGC
NCLIV_008980|TCCGGCGGCATGTCTTTCAA|GATTATGT
NCLIV_009000|GCATCCGCCATGACCGTCCG|TTTCGATGC
NCLIV_009050|TAGGTTGGCATGAGGTGGAT|CATTATGT
NCLIV_009110|CGAATTCCAATGGAGAGCCA|ICTGGATGC

NCLIV_009220|CGTTCCGCAATGCCACTTCCIGACCATGC
NCLIV_009260|GGTGGCGCGATGCCGCCTGCIACGCATGT
NCLIV_009320|TTTTTCGAGATGTCCACGGTIAGCCATGC
NCLIV_009400|TGCTTCCAGATGGAGGCGATITGGATGC
NCLIV_009480|TGCTTCCGCATGGCGGCCGCTCGGATGT
NCLIV_009490|GGACAGGAAATGATTACAGGCICTCGATGC
CHROMOSOME IV
NCLIV_009530|GCCTTCCAGATGGACCCGCCIGTTGATGC
NCLIV_009590|GATCTCGCGATGTCAGGAGCICTTGATGT
NCLIV_009650|AACCTTCAAATGGGGACCCAIGTCTATGC
NCLIV_009660|GCCGTGCGCATGTCGGGTAGITTCATGC
NCLIV_009690|TCGTGTCCAATGGTGGAGCCICCTAATGT
NCLIV_009810|GCCGTGCGCATGTTGGGCCGCTCTCATGG
NCLIV_009820|TACTTAGAAATGACAAAACCTAAGGATGT
NCLIV_010030|GAAGTTGTTATGAGTCTCAAITTTTATGG
NCLIV_010060|CGGAAGTTGATGGCAGTTTGICTGCATGT
NCLIV_010070|TCGCATTAATGGTCGGCAGIGAGAATGG
NCLIV_010170|CTGACGTCGATGGCGCCGACIGACGTCG
NCLIV_010190|CCTTTCCAGATGGTCCAACCIAGATATGT
NCLIV_010510|TTCGAAGAAATGCGCACCATCATGATGC
NCLIV_010530|TCCGACTAGATGGCCGACTCIACCGATGG
NCLIV_010650|ATCTTCCCATGGGAGCGGCTTCGATGC
NCLIV_010741|CGTGGCGCGATGCTGACATAITGTCATGC
NCLIV_010790|TCTGCCGCCATGCTGCCTCCTTTCATGT
NCLIV_010950|TCTGCCGTCATGAATCGAGAITGGATGT
NCLIV_011020|ATTTCGTGCGATGCCTCCTCTIGGAAATGC
NCLIV_011050|CAAAGAGATATGTGGGGGCAIAAACATGG
NCLIV_011100|CAAGAACCATGGCGAAAATIAAACATGC
NCLIV_011200|CTGTTGTACATGGCTGACACITTTTATGA
NCLIV_011210|GGCCTGTCGATGGAGACGGGIGAACATGC
NCLIV_011240|GTGCGTGAATGCAGTCCGCITGGAATGG
NCLIV_011305|TTCTGCGCAATGACGACATCIGTGGATGC
NCLIV_011310|ATGGCCGAGATGCCGCTCTCITTTTATGG
NCLIV_011400|TTTTCCGAGATGAGCAGTCGIGCCAATGT
NCLIV_011420|CCACTTGAGTTGAAATGTTCTGAGATGA
NCLIV_011460|CACGTGGGTATGCGCGGGAIGGAAATGA
NCLIV_011500|AAGCGTCCGATGGCACCGTTIGATGATGT
NCLIV_011580|TGC GTTCCGATGGCGAGTGAICTGCATGC
NCLIV_011590|TTCTTCCCTCATGGCAAATCGICGGAATGC
NCLIV_011600|GTTAGAGATATGACGTGGGCI AACCATGG
NCLIV_011650|TCTCGTGGGATGCCACTCGTIAATTATGC
NCLIV_011740|CCTGTTGCAATGTCTTCCCTCIGTTGATGC
NCLIV_011750|GTGGCGGCAATGAGCTTTCGITTCCATGC
NCLIV_011760|TGTAACGCCATGCCGCCGGITTCATGC
NCLIV_011870|TTTTTAGCGATGCTCGACTGITACAATGC
NCLIV_011930|TCTTTGGGCATGAGCCTCTGICTGCATGC
NCLIV_012010|GTTGAAGAGATGTGTCGAGGIGCGCATGT
NCLIV_012020|GTTGAAGAGATGCGTTCGAGGIGGCAATGT
NCLIV_012060|GTCACAGCAATGCATTTCTCITTCGATGT
NCLIV_012070|TTTTCCGCGATGATTCCTTCIAGTGATGA
NCLIV_012080|GCGTCGCTGATGGACTCACTIGCAAATGG
NCLIV_012110|GGACTCCTGATGGAACCACGIGCTCATGG
NCLIV_012150|GTCGTGTGAATGGGGTGCACIGAAAATGT
NCLIV_012180|CAACTCGTTATGCTGGCGAAICGAAAATGT
NCLIV_012190|TCTTTGGAGATGAGCAGAAAIGCGGATGC
NCLIV_012200|GATGAAGAGATGCATCGAGGIAGAGATGA
NCLIV_012210|ACCCAGCGTATGGCGTCAAAICCAGCGT
CHROMOSOME V
NCLIV_012260|CGCCCGCCAATGGACTTGGGIGAAGATGC
NCLIV_012300|GAATGGCAGATGGAAGAAAGICAGAATGG

NCLIV_012320|GCTCCC GCCATGTCTTTTCGCITTTTCATGG
NCLIV_012360|GCTGTAGCAATGCCAAGAAGICCTCATGT
NCLIV_012430|GTCTTGCAAATGGAACATTTICCGCATGC
NCLIV_012450|CGGAGATGCATGGTTTTTCTIGGAGATGC
NCLIV_012470|AAGCACGACATGCGACACTCICTGCATGT
NCLIV_012480|GCAGCAGAGATGTTTACGCGIGTGGATGC
NCLIV_012680|TTCTTGGAATGACGGCACCTTTTGATGT
NCLIV_012720|TCCGATCACATGGCCCCTGTICATCATGG
NCLIV_012730|CGCTTCTCAATGGCCCGCAAICGGCATGT
NCLIV_012740|CCTGTGCGCATGCCGGCTGCIAGCCATGG
NCLIV_012820|GGGACCGAGATGCGGCAGGAITTCATGT
NCLIV_012850|AGCAAGTCAATGGTCAGATCIAGAGATGA
NCLIV_012970|CTCTCTGAGATGACAGGTCCACCATGT
NCLIV_013000|CACCCGATATGACGGCAGCICACTGATGA
NCLIV_013010|GCAGTCTCAATGGCTTCTTCTIGATATGA
NCLIV_013020|GGTGCAGCAATGTCTTTCCTIGTGTATGA
NCLIV_013030|GAACAAGCAATGCCTTACCTIGCCAATGG
NCLIV_013090|GTCAAAGAAATGTCCCAGAGIAACAATGC
NCLIV_013240|CACTCCTGGATGGCGATTACICTGCATGC
NCLIV_013290|ACGCCGCCTATGGAGACGCGIGCCGATGC
NCLIV_013300|TTCTTAGGGATGAACTTTGTIACGCATGT
NCLIV_013310|GAAACTTCGATGGCGCCTTCTIGCAATGA
NCLIV_013350|ACTCTTGCAATGCCTCGTCCIGTGCATGT
NCLIV_013440|CCGAGACAGATGGCTCTTCCITCAGATGA
NCLIV_013450|GCTCGAGCAATGCAAGCGATITGTGATGC
NCLIV_013580|CGGCTGTTGATGGGTCGGGAACAGATGG
NCLIV_013680|GAAGCCGCCATGACAGGGGTICTTCATGC
NCLIV_013820|GCTATCGTCATGTTACAGAGAIAGATATGT
NCLIV_013850|GACACCCGGATGGCTCGGTCIATACATGT
NCLIV_013860|CAAGCGGCGATGCCGGCGTTITCGCATGG
NCLIV_013930|TCTACCGTCATGAGGCGGCAITAATATGG
NCLIV_013980|AGTAGGGGCATGCTTGGATTIATCCATGT
NCLIV_014030|TGCTTCCCTGATGGGCGCCTCICTGTATGC
NCLIV_014140|TCTCCCTCTATGGGGAGTATIGGGGATGT
NCLIV_014190|CTTCTCGCCATGCATCTCGCIGAACATGC
NCLIV_014260|TTCTCCTTTATGGCGAGCGTICCTATGT
NCLIV_014290|CCTCTCGCCATGTGGCTCGGIGCGGATGG
NCLIV_014390|GATACGGGAATGCCAGCGAGIAACCATGG
NCLIV_014420|CAGTCACAGATGGAGTCCTCICGAAATGC
NCLIV_014440|CTCGACGGAATGTTTCCGCGIGCAGATGT
NCLIV_014460|CCAGGGGTCATGTCACAGCAICTGTATGC
NCLIV_014480|ACCGGCCTTATGGAGCCACCTAACTATGC
NCLIV_014500|GTGTTTCCAATGGCAGACAAITGGTATGG
NCLIV_014560|ACA ACTGCAATGCCTGTGTTITCGCATGC
NCLIV_014610|ATCCAGGAAATGCTCGAAACIACGGATGA
NCLIV_014670|TTGCGTCAGATGGAGCAGCAIAGGAATGA
NCLIV_014750|CAAGCCGCCATGAGCCCCACIATCCATGT
NCLIV_014780|GTTTTTCGTATGGCCTCGACIGCGTATGC
NCLIV_014800|CGTCGGCCCATGGAGCCCTCICTCGATGT
NCLIV_014860|GCGAGCGAGATGCAGAGGGAATCTATGA
NCLIV_014940|TCGCGCGACATGTTTCGTTCAICGACATGT
NCLIV_014980|TGCTTGCAATGGATTTCTTICGCATGT
NCLIV_015000|GAGAAGCAGATGGGGAATAAITCAGATGA
NCLIV_015040|GGATCTGGAATGACTGATGGIGGCAATGT
NCLIV_015110|TTGACCGGAATGTTGGCAACIAGTGATGC
NCLIV_015150|TTCTTTCAAATGGAGGCGGAIITTTATGG
NCLIV_015190|GCTGTGGAAATGCCTTCTCCITCCGATGC
NCLIV_015230|TCTGCCGAGATGCTCCCGCAITCCCATGT
NCLIV_015250|CTGGGACAGATGGCCCTCGAICGCAATGG
NCLIV_0153|GCGCCTGGAATGTCCGGCCAIGCCGATGT

NCLIV_015360|TCCGCTCCCATGGCGTCTGG|GCGGATGC
NCLIV_015370|CGCAGAGGCATGTCGCTTCT|ATTTATGC
CHROMOSOME VI
NCLIV_015420|TTGCCTGCAATGCCCGCCG|ACGTATGG
NCLIV_015470|AAGCGGCCGATGGAGGAAA|GCGCATGG
NCLIV_015540|GTCGGCGACATGCTGCCTT|CTAGATGA
NCLIV_015600|GTTCAAGTAATGAAGGTGCG|ICTGTATGC
NCLIV_015780|GCGGGCGCCATGACCCCCG|CAGCATGT
NCLIV_015850|CGAAATCAATGGATTTTCC|ICGTGATGG
NCLIV_015890|TGTCACGAGATGCGGATCAC|GACGATGT
NCLIV_015930|TGGGCAGCTATGCATCCGGG|ICTCAATGG
NCLIV_015940|CGTCCCTCCATGGAAGCAAG|ATGGATGG
NCLIV_015980|GGCGCGCTCATGGGGGTCTG|GTTCGATGC
NCLIV_016100|CTCCCTTTTATGGCTTCCAT|ICGCAATGT
NCLIV_016110|ACAACCGATATGAACATTAG|IAAAGATGT
NCLIV_016250|CTCCACTCAATGGGAATCAT|AACAATGG
NCLIV_016270|CGGTAGGTGATGAATTGGTT|CATGATGA
NCLIV_016290|ATCACACTCATGGACAGCCT|ICGGTATGC
NCLIV_016380|CGCCTAGCAATGCTCGAATT|ICCGCATGT
NCLIV_016400|TCGCCGTGCATGGTTTCTC|ITTGCATGA
NCLIV_016500|AAATCCGAGATGCTCGAAGT|ICATGATGG
NCLIV_016650|GAGTTACCGATGGCAAATCC|TCGTATGC
NCLIV_016770|GACATCCCGATGGCGACTGC|ACAAATGC
NCLIV_016800|TCAACTTTGATGGTGAGCAA|ATCAATGG
NCLIV_016810|AACATAGAAATGAAGCTGAC|IGGATATGT
NCLIV_016860|AAGAGGGGAATGCAGATGGG|IATACATGA
NCLIV_016870|CGAGCTCCAATGGTACTACG|ITTCAATGC
NCLIV_016910|GTCTTCGTCATGTTGCAAGC|ICTTCGTC
NCLIV_017070|GAACGCCCCATGGGAGGCAG|ICTTCATGC
NCLIV_017130|CTCGAGCAAATGGCGCCGCT|IGGAAATGA
NCLIV_017140|ACGTGGTCCATGGCGGACGT|GTGGATGC
NCLIV_017220|AGGGCACCTATGGCATCAGG|ITGCCATGG
NCLIV_017270|CAGGCCGCGATGTCGTCGCC|GTGAATGA
NCLIV_017330|GGACAGGGTATGCCGCCGCG|ICTCGATGA
NCLIV_017340|TCGGCCGCAATGCGTCTCTC|GACTTATGG
NCLIV_017460|GAGGCCGCGATGAGGGGGAA|TTGCATGC
NCLIV_017490|TTTTCTCGATGGCGAGCTC|IGCCCATGC
NCLIV_01751|ATGCGGCCAATGGACTTAGT|ITTTTATGC
NCLIV_017520|ACTGCTGTAATGATCGGTAG|AAGTATGT
NCLIV_017590|AGTGTGGGCATGCGCACGGC|IGGTCATGC
NCLIV_0176|TTGATCTTCATGGCACCAGT|GTTCGATGC
NCLIV_017600|ACGGAAGAGATGCGCGCTGT|AATGATGG
NCLIV_017640|GACAAGGAAATGTCTCAGGA|CCCTATGC
NCLIV_017650|AGAAGACCCATGGCCTCCGAI|ACGTATGG
NCLIV_017740|CACTTTCCGATGGCGACAGG|TCAAATGC
NCLIV_017760|AGAGTCGCCATGTGCAAGCA|IGCAAATGC
NCLIV_017790|GTTAAAGCAATGACCGAAGA|IGAAAATGG
NCLIV_017870|CCGCTCCCCATGGAGGCCTC|IGGAAATGT
NCLIV_017990|GCGTGTCAGATGGACGCAGC|AACAATGG
NCLIV_018010|GTCGCCGAGATGCTCCTCCC|IAGACATGA
NCLIV_018050|CAAGGCGCCATGAGTCTGCC|IACGTATGC
NCLIV_018140|GTAGCGCCAATGGTGGGGGG|IGCGCATGC
NCLIV_018180|AGAAGCGCGATGCACACCAT|AAGCGCG
NCLIV_018270|CAGTGGTCCATGGCAGGCCG|IGGTTATGC
NCLIV_018280|TGGTTAGCCATGCCACCCGT|IGTGTATGG
NCLIV_018320|TGGACCGCCATGTCAACGTG|GTATATGC
NCLIV_018380|CGTCTCTCCATGGCTCCTGC|ITTACATGT
NCLIV_018440|GCCATCGGGATGTACAGACA|ITTCATGC
NCLIV_018510|CAACTCGCAATGACTTCTTT|ICGAGATGC
NCLIV_018530|TAAGTCGAAATGCGTCAATT|ICCCAATGC

NCLIV_018580|ACAGTCTCGATGGAAGCTGAICTGCATGC
NCLIV_018590|TCTCGCGCGATGCCCGTCCC|CCGCATGC
NCLIV_018630|ATCACCGTGATGCACCCCTC|TGTCATGG
NCLIV_018640|GCCAGAGCCATGTCGCACCA|ATGATGC
NCLIV_018700|TTTCTGGTGATGCAGTCGAC|ICTGCATGC
NCLIV_018730|CTTCGAGAGATGTCTCCCTC|IGCGCATGT
NCLIV_018780|TCGGGGTCCATGGCAACGCT|IGACAAATGC
NCLIV_018820|TCCTTCGACATGCGGAAGGA|TTTCGATGG
NCLIV_018825|CTCGGCCAGATGGATCCCTC|IGCACATGA
NCLIV_018960|GCGACATTGATGGCTTCTGT|TGAAATGA
NCLIV_019030|CCTTCCGCCATGCAGCCCCA|GTACATGG
NCLIV_019140|AAGCCGCACATGGTACTGGT|CTGGATGC
NCLIV_019150|CAGCCCGCAATGCCTCAGAC|IGTGCATGC
NCLIV_019210|AGTTTCGAAATGAGGACTGC|IGTGCATGT
NCLIV_019260|CTCGAGCAAATGGAGGTTA|TTACATGC
NCLIV_019290|CTCTCTGAGATGCCACTGGA|GTGGATGG
NCLIV_019330|GGGCAAGTGATGCGGGCGGT|CCCCATGC
CHROMOSOME VIIa
NCLIV_019420|CCACCGTCTATGGCAAACCC|AGCCATGG
NCLIV_019430|CTTCTCGACATGTTAAAGCT|TTTGATGC
NCLIV_019720|AGGCTTTCCATGGACCGTTG|ICTCGATGC
NCLIV_019740|GCGTTTCGCGATGCCAACAGA|TTCCATGC
NCLIV_019760|TACTACCGATGGCGAAGGA|AGTGATGC
NCLIV_019770|CTATACTTGATGGAGAAAAG|AAAGATGG
NCLIV_019790|ACATGTGACATGAATCTCGT|GTACATGT
NCLIV_019820|AACCCGCAAATGGATCATCT|IAGCAATGG
NCLIV_019850|GCTCTCCAGCGGAGGCCCC|IGTGTATGC
NCLIV_019860|GGGTGAGCCATGCGTTTACG|GTGGATGT
NCLIV_019920|CAATTTTGCATGGAGAGAAA|ITCCATGG
NCLIV_019990|CTCGCCGCCATGCTTTCCAC|IGCCGATGC
NCLIV_020030|GAAAACCTGGATGGGAGGCCA|IGTCGATGC
NCLIV_020060|GCACCTGCAATGACTAGCGG|ICTGTATGC
NCLIV_020110|GACGGTGGCATGCTTGATTG|TTCTATGT
NCLIV_020150|TCTTTCGGGATGCAGCGCCG|TTTCGATGG
NCLIV_020240|GGAGAACTCATGGGGCAAGC|ICTAGATGT
NCLIV_020530|TCGCAGCCAATGGCGACGGG|IGCCAATGG
NCLIV_020540|GGGTCCGTTATGAACATTA|AIGTCCATGT
NCLIV_020560|CGCTCCGCGATGAAGGTTT|CACAAATGG
NCLIV_020600|AATACACTCATGGAGAATA|AICAACATGA
NCLIV_0207|TGACAAGAAATGAAGGGCTC|GGGAATGG
NCLIV_020750|AGGAGAGAAATGCTGAGTCC|CCTGATGT
NCLIV_020800|CGCACCGCCATGTGGCTCAG|IATATATGC
NCLIV_020890|CGACACCAAATGGGGATCCT|IACGTATGC
NCLIV_021000|CCACACGCGATGCTGCCGCA|CAGAATGG
NCLIV_021010|GTGGGGTACATGGAGGAGGC|ITTCTATGT
NCLIV_021230|GATCCTGACATGACACAACC|IGGCGATGA
NCLIV_021405|TTCTGCTTCATGGAGGCGAA|GTGAATGT
NCLIV_021530|GAGGATCAAATGGCCGAAGT|AACGATGC
NCLIV_021550|TCTTTTGCAATGACGGCCCC|IGTTGATGC
NCLIV_021610|AGGTTTCGAGATGTCGAGACT|IACTTATGA
NCLIV_021650|TCTTCTCGGATGGCGGGAGC|IGTGCATGT
NCLIV_021700|CCGACGGGAATGACCACGCT|ICTGCATGC
NCLIV_021710|GAGACTGCCATGTTACGCGA|ITCGCATGA
NCLIV_021770|GCCGGCGAGATGACGGGAGC|ICGACATGC
NCLIV_021840|GGACCTGCCATGCCAAAACA|IGTCCATGG
NCLIV_021860|CTAGATGGTATGAGAGGGTC|ICTAGATGG
NCLIV_021900|AAAACTCAATGGCCCCTTG|IGCCTATGT
NCLIV_022020|ACCGTCGGCATGTGCGCAGT|AAAAATGA
NCLIV_022050|TTTCTCGCCATGCCGACAAG|CCCTATGT
NCLIV_022100|TTTTTCGGCTATGTGGCCTTT|TCTCATGT

NCLIV_022130|CTGTACGCGATGCCTGGCCA|GCTGATGC
NCLIV_022150|CGTTTCCCGATGGAGGACGC|AAAGATGT
NCLIV_022260|TCTGTTCGAGATGCTCAGCGG|ATGCATGT
NCLIV_022350|GGAACGAAATGCCTGGTCC|ACAGATGG
NCLIV_022390|TCCTCTTCGATGGCCGCAAC|GTCGATGC
NCLIV_0224|TCCGCACTCATGGCGCTCAA|TCATATGT
NCLIV_022410|GCAGAGGCGATGAAGAGAAA|GTGCATGC
NCLIV_022440|GGCCGGCAAATGGGACGGAA|GCTCATGA
NCLIV_022580|TCTTCCGGCATGTCGTCTG|CICACGATGC
NCLIV_022610|TGTCTACTGATGGCGGAAAA|AGCTATGG
NCLIV_022630|CAAGCCCCGATGGCCCAAGT|AAGAATGG
NCLIV_022690|TTAGCAGAGATGCGCGCAA|AAGTGATGA
NCLIV_022760|TTGTACGCTATGACAGGAAG|GTGCATGA
NCLIV_022790|GTTTCCGGCATGAGGGAAGC|GCCAATGC
NCLIV_022810|TTATCATAAATGGCGCCCA|AGGAATGC
NCLIV_022830|AACGCAGCAATGCCGGGACC|GGGTATGG
NCLIV_022870|CGGTTTCGAAATGCAGGTGCC|AGCCATGA
NCLIV_022890|ACGCAGTGTATGGGCCTCGA|CTTCATGG
NCLIV_022920|TCTGACCCTATGGACACACG|TTTCATGT
NCLIV_022930|ACGGCCCCAATGGCCACGCT|CCGCATGT
NCLIV_022940|GCAGTGCAAATGGCCCCTCG|GCTTATGG
NCLIV_022960|CGCAGGGACATGCCCGGCA|CGCCATGC
NCLIV_022980|CAAACGCGATGCGGTTCGGT|TCGTATGC
NCLIV_023090|CTTTCAGCAATGAGAGGCGT|AAATATGC
NCLIV_023100|TCCGGACCAATGGCCAGTCG|CCCGATGG
NCLIV_023170|TCGCCCTCGATGGCCAGCAG|ACTATGT
NCLIV_023180|TGACCACGAATGGAAAAGAA|TTCGATGC
NCLIV_023200|TGAGCCGAGATGAGGTTTCG|CCGGATGT
NCLIV_023250|CCTACCGAGATGAGGAGGGG|GAGAATGG
NCLIV_023350|GGCGTGCAGATGGCGGACCT|GTCAATGT
NCLIV_023500|TCCATCCGGATGGGCAAAGC|TCCATATGG
NCLIV_023510|GTTCTCGCGATGTCTCTGGG|GGAGATGT
NCLIV_023540|CCCGTGGAAATGACGCACCT|CTCCATGA
NCLIV_023560|AGGCGAGTGATGCCTCCTT|CAAAAATGG
NCLIV_023580|CAAACGAAATGACAGCCGG|TCAGATGC
NCLIV_023600|GTCTTGGCGATGACGGCCCG|CGAAATGT
NCLIV_023660|GGAGCAGACATGAGGTCGGT|TGCATGA
NCLIV_023700|TTGGGCCACATGGCTGCCAC|AGCGATGG
NCLIV_023750|GCCCTCGCCATGTGTGTTCA|ACCCATGT
NCLIV_023830|GCCGCGGAGATGCGGCTACA|CTTCATGC
CHROMOSOME VIIb
NCLIV_023870|TACACGTCTATGGAAGGCGA|ITCCATGC
NCLIV_023920|GCTCCTGCAATGACGTCGAGI|AGAAAATGA
NCLIV_023930|AGGCTTCGAATGGCGGCTA|IAGAGATGG
NCLIV_024010|TGTTGACTGATGGAATTCCA|ATTCATGT
NCLIV_024040|GTTGGCTCAATGGAAATTGC|TTTGATGA
NCLIV_024060|ATCGACGCCATGAAAGACCT|GTATATGG
NCLIV_024130|CAAGAATCTATGGCGCCTT|CGGACATGC
NCLIV_024160|GCCACGGAGATGCTCCTCGC|CTGCATGC
NCLIV_024170|CTACGTGCGATGTGTTGGG|CTCGATGT
NCLIV_024200|AAAATTGCCATGAAGGCCAG|ITCAATGT
NCLIV_024210|CGCACTGACATGGCGCGGC|GGCAATGC
NCLIV_024310|TGAATAGGAATGAAGGGGAA|ACGTATGA
NCLIV_024330|ACAGCAGATATGTTTGACGC|TTGAATGC
NCLIV_024360|GACGCAGAGATGTCGGCGGC|GAAAATGA
NCLIV_0245|GCAGTCCTCATGGAGAGTAA|GCTTATGC
NCLIV_024540|ACTCAAGCAATGCGGTTTCG|CATGATGC
NCLIV_024580|GTAATCGACATGAAGGAAAC|GTCGATGC
NCLIV_024590|ATGTCCAGATGGCGTCGGT|ATTGATGT
NCLIV_024650|TTAGGCTCGATGGCATCGGA|TTTGATGT

NCLIV_024680|TATGGT GCGATGTATCGCGG|TTCTATGG
NCLIV_024690|GCTGCGCAGATGGGAGAAGC|TGACATGC
NCLIV_024710|GTCCTCTTCATGGAGGAAGA|GAAAATGT
NCLIV_024730|TTGCGGCAGATGGGGCGCTT|ACTCATGT
NCLIV_024770|CC TTCACCCATGGCGCCAAC|CAGCATGA
NCLIV_024860|TGTGTGCGGATGTCCGCCGG|TGAAATGT
NCLIV_024930|TTGAGACAAATGGAGCCGTG|TTTCGATGC
NCLIV_024980|ACAGCAGAAATGAGGCTGCT|ATTGATGA
NCLIV_024990|ACGTCCGCAATGTCGCGCGG|GAGTATGC
NCLIV_025010|GTCTAAGCAATGCAAGAGTC|GTCCATGT
NCLIV_025181|GCAGGAGGCATGCTTCGGCA|GACAAATGG
NCLIV_025200|AAAGCAGCCATGAGA ACTGC|TTTGATGT
NCLIV_025230|GGGAACGGCATGCTTCCAT|GGCCATGG
NCLIV_025260|GAAAGACAAATGGGACAAAG|CGTTATGT
NCLIV_02531|TTGAGCGTGATGCGCGG|CAGGAGGATGC
NCLIV_025320|CTTCCGTCATGAATTTCT|GCACATGT
NCLIV_025500|TCCCGGCGAATGGAGGCGCC|CTGCATGC
NCLIV_025570|GACAGGCAAATGGAAGAGAG|CTGCATGG
NCLIV_025610|CGGATTTTTATGGCGGCGCA|CAGGATGC
NCLIV_025640|GCTTGGCAAATGGCCAACTT|AACGATGG
NCLIV_025680|GTTGTTCCCATGGCCCTCCA|CGAAATGC
NCLIV_025720|CCTTCGTCAATGGTCGGCAG|CGGAATGT
NCLIV_025780|CGTGCGGCGATGACACAAT|GTGTATGT
NCLIV_025800|CTTCGCGCCATGCCTCGAGC|TGGTATGA
NCLIV_025820|TCATCTCTGATGGAGGGCAT|CTGGATGT
NCLIV_025880|CATTCCACATGGTCTTCGG|CACGATGT
NCLIV_025940|AGCGCTCTCATGGCGGATGG|GGATATGT
NCLIV_025950|GTGTCATACATGGAGGGCAG|TTTCATGT
NCLIV_026000|GAGACAGCGATGCGCAAAA|TCGCATGG
NCLIV_026040|TTTCCACTCATGGCAGACGC|ACGCATGC
NCLIV_026060|AGGAAGGTGATGAGATTCGG|TCGCATGC
NCLIV_026120|CTTGCCGGCATGCGGTCTCC|TCGAATGG
NCLIV_026170|TCTTCCCAGATGGAGGGCGG|AGCCATGC
NCLIV_026200|TTGCCCGAAATGCAGTTCGT|TGACATGA
NCLIV_026320|ATTTACCAGATGGAGCCTCG|CACGATGC
NCLIV_026330|AGAAAGGAAATGTCGTCTC|GTTCATGA
NCLIV_026360|CCCTCTGACATGCCGATGG|AACCATGA
NCLIV_026400|GCGGTTCAATGGCGCTGTT|GAAGATGA
NCLIV_026420|GCGTCTTGATGGCTCATCC|TGGGATGG
NCLIV_026510|GACACGCTCATGGCCACCCA|CGCGATGC
NCLIV_026560|GTCAAGCACATGGTTGTAGA|CGCTATGT
NCLIV_026590|GCCGCGTCCATGGCGGGTTT|TGTGATGA
NCLIV_026640|GCACGGGAGATGACGCCTCC|AGACATGC
NCLIV_026670|GTGGCAGCGATGCCTCCCTT|AGTGATGG
NCLIV_026690|TGGGACGTGATGCAGAGCCT|CGCGATGG
NCLIV_026740|TGCGTGCCGATGGCTGCTGC|GGAGATGA
NCLIV_026750|TCTACCCTCATGGCATCTGC|GGGCATGA
NCLIV_026780|CTCGCTTCCATGGCGCACAC|CTTCATGC
NCLIV_026790|TCTGGCGCTATGTCATT CAG|TCGCATGT
NCLIV_026880|TCCGCATCAATGGTTGTCGT|TCTCATGC
NCLIV_026900|CGACGTCAAATGGAGCAGGA|GGGAATGT
NCLIV_026910|CCTGGTGTGATGCCCCGGGG|ATATATGG
NCLIV_027110|CTGATTCCCATGGTCAGGAC|AGGAATGC
NCLIV_027150|GTCTTGGAATGTTTTCTTC|CACTATGT
NCLIV_027190|TTTTCGTCCATGGCGCCAAG|ATCAATGC
NCLIV_027220|GTGTCCTCTATGGAAGGGTC|CACCATGA
NCLIV_027250|TCATTGCCAATGGAGGACGC|GGAAATGC
NCLIV_027460|CTCGCCGAAATGCAACTTAC|CTGGATGT
NCLIV_027640|ACCGCCCCGATGGCCGCCTC|CTGAATGT
NCLIV_027670|TCGTATTCAATGGCGAGATA|AGACATGC

NCLIV_027680|TCGTATTCAATGGCGAGATA|AGACATGC
NCLIV_027690|TCGTATTCAATGGCGAGATA|AGACATGC
NCLIV_027700|TGTATTCAAATGGCAAGCGA|AGACATGC
NCLIV_027710|AGCTTTCCTATGGGTCTTGA|GAGCATGC
NCLIV_027720|TTCGGTCCCATGGTTTCCAC|TCGCATGG
NCLIV_027750|GTCCTGGAATGTGGGAAAG|TACAATGT
NCLIV_027780|GCTTTTCCAATGGCAGACAC|CTGCATGT
NCLIV_027840|TTCTCACCGATGGTAAGGAC|CTGGATGT
NCLIV_027860|AAGACCGCCATGCGCCACGA|ICCAAATGG
NCLIV_027890|CCAACAGGAATGCGCGTCTG|ICTGAATGG
NCLIV_027950|CTGGAAGCAATGCTGCGAAT|TGACATGT
NCLIV_028080|CCGTGCGCCATGCCAGCTT|GCCCATGC
NCLIV_028110|TATCCCTTGATGGTGTGCT|GCIAGACATGG
NCLIV_028140|CTCGGCGAGATGCCGGATCT|ATCCATGG
NCLIV_028170|TCCGCAGCGATGAGCGTCTC|GAAAATGC
NCLIV_028260|CTGTCTCCGATGGAGAGGCT|GCCCATGC
NCLIV_028290|TCCGTGGAAATGCATTCTCT|TCCAATGC
NCLIV_028440|AAGAGCCAAATGGCCATCGA|ICAAAATGC
NCLIV_028450|GTGAGTCAAATGGAAGCATC|IGCGAATGG
NCLIV_028460|GAGGGTGCAATGCGTGTCCG|CAGGATGC
NCLIV_028550|TTTTTCGTGATGTCGACACCI|GTCTATGC
NCLIV_028640|AGGTGTCCGATGGCCCACGA|ICGCGATGC
NCLIV_028650|TTTGTGGAGATGCCGGAAC|TTCCATGC
NCLIV_028720|GCGCAGCCAATGGAGGCTCC|IGGGTATGC
NCLIV_028770|GAAGAAGAAATGCGAAAAA|IGGCGATGC
NCLIV_028790|CTTGTTGACATGTACCAGGC|IGACAATGG
NCLIV_028800|CGAGAAGCCATGAAGTGCAT|ITCGCATGG
NCLIV_028850|CTTCTCGCCATGTTACCTA|IGACTATGG
NCLIV_028980|TCTCCAGGCATGCAGCCTT|CIGTGGATGC
NCLIV_028990|GCTATCGCAATGTCCGTA|AAAIAATAATGT
NCLIV_029050|CACGTCTGGATGGGAGCAT|TIGACAATGC
NCLIV_029060|AGCAGGCAAATGGCGTGTG|GGICTCCATGG
NCLIV_029110|GCCGGCCTGATGGTGAAGG|TAAATTATGC
NCLIV_029270|CTTCCCTCGATGGCGTCTT|GITTCCATGC
NCLIV_029280|CAAGTTTCGATGGGGAGAA|AIGCGCATGG
NCLIV_029290|CTCTTCCAGATGGCGCCGCA|ICGAAATGC
NCLIV_029330|GTTCCGCCAGGAGATTCTC|TGTACACATGG
NCLIV_029460|CGTCTTCCCATGGCCTTCT|CICCTGATGC
NCLIV_029540|TCGAACGCCATGTCGAGTGA|IGTCTATGT
NCLIV_029550|CTATCCCCAATGGCTTCAAC|IACACATGC
NCLIV_029570|TCCGCCGCCATGACTGACGC|ICCTCATGG
NCLIV_029580|GTCTTTGGGATGAAGGGCGC|IAAAGATGC
NCLIV_029620|TGCTGCGGAATGTCTCTCGT|GTGCATGT
NCLIV_029640|GGGGAGGGAATGTTTTCCCG|ICCTATGC
NCLIV_029650|CCCGAGGGTATGCGTTCACG|ICAATATGA
NCLIV_029670|AAAAACGTCATGCTTGGCTC|IGAGCATGG
NCLIV_029690|GTCGTGGAAATGTTTCGGCT|IACGCATGC
NCLIV_029780|AATAAACAAATGGCGACCCT|IGCGGATGG
NCLIV_029870|CCAGTCGCCATGTCTCCGTT|IGCGTATGC
NCLIV_029910|CCTCTTCGTATGGCGGACCT|GTACATGT
NCLIV_029930|AAGCCAGTCATGAAGACGGA|ITGACATGT
NCLIV_029940|GTGAAACAAATGGCGTCCGA|IACATATGC

CHROMOSOME VIII

NCLIV_030060|TACTTCGAGATGAGCCTCGA|IGTGTATGT
NCLIV_030080|CCGAAAGCCATGAAGCCACA|IGAGGATGT
NCLIV_030180|TTATCTGTGATGCTGGACGA|ICAGCATGC
NCLIV_030300|GCCGGACACATGGCGCCAGA|ICAGTATGT
NCLIV_030350|TTTGCAGGAATGTGTGCGTG|IGACGATGA
NCLIV_030360|GCGGCGGCGATGACAGACGC|IGGAGATGT
NCLIV_030450|GGATCACGAATGGTTCCTCG|IGGCCATGC

NCLIV_030570|TTGGTCGAGATGCAGGAGAA|TTCCATGT
NCLIV_030580|GTTCTTGCAATGCAACGAGA|TGCGATGC
NCLIV_030620|ACGCGCGGCATGAGCAGCCA|CACCATGT
NCLIV_030670|GTCGACGAGATGCCGCCCT|TTTCGATGA
NCLIV_030710|CGTTCTGGGATGTTTTCGAC|GTCCATGG
NCLIV_030730|TTCGCCGGCATGCCGCTCGC|CTCTATGT
NCLIV_030760|CAAAACCTCATGGCCTCGAA|CAAGATGG
NCLIV_030880|GCGGGCGCCATGTCGGGAGG|GTGCATGC
NCLIV_030980|GTATGAGAGATGAGAATCT|TTTGTATGA
NCLIV_031050|CTCGTCGCGATGAAGGCGT|TATCCATGG
NCLIV_031080|GCGAGCGAAATGTCTGATT|TATGGATGA
NCLIV_031110|CCAGGTGCAATGTTTACGTT|IGGGATGG
NCLIV_031120|TCAGATCATATGGCCTTCAA|AAAAATGG
NCLIV_031130|TCCGTAGAAATGCTGGGACC|CAGGATGG
NCLIV_031160|TCCGTGCAAATGGAAGTACT|AGCCATGT
NCLIV_031180|TGTTTTAGTTCAACTCGTT|ACTCATGG
NCLIV_031220|TTGTCTTTCATGGGTGACAA|GCGCATGA
NCLIV_031313|TCGGACGCGATGTCGCCTCC|CGACATGG
NCLIV_031320|GCGCCGGTGATGACAGCGTC|CACGATGG
NCLIV_031360|CACGGTGCGATGCTTGTGAA|CTCAATGC
NCLIV_031370|GTCGTCGCCATGTCTTCCCT|TTTGTATGT
NCLIV_031450|AGTATCGAGATGATTTCCAG|GCAAATGA
NCLIV_031460|TAGTTCTCAATGGCGACTGC|ACAAATGG
NCLIV_031470|CAACTCTCAATGGTAGCCAT|GAAAATGC
NCLIV_031480|AAAAAGGAGATGAGAACTCT|CCAGATGA
NCLIV_031540|CTCTTCCCGATGGAACGGGA|AAGGATGA
NCLIV_031550|GGACAGCTGATGGGCCCTTG|CAGGATGC
NCLIV_031610|TTTCTAGCAATGTCAGGTGCI|CGAAATGC
NCLIV_031640|TCGTTCTTTCATGGAGCGCA|ACACATGT
NCLIV_031700|GTCTTCCACATGGGGAAGAC|ACGCATGA
NCLIV_031710|TTGAAAGGAATGAGCCTGGC|ITCGAATGT
NCLIV_031830|GAGCCTTCCATGGACCCGCC|GTTCGATGA
NCLIV_031840|GGAGGCGCGATGACGCTGCC|IGAGGATGC
NCLIV_031870|TTCGTGGCAATGCTCCGGCT|GTGCATGA
NCLIV_032190|CCCGCCCTCATGGAGCTTTT|IATAAATGG
NCLIV_032230|GGATTTCGCCATGAGCATCGA|TCTCATGA
NCLIV_032280|CACTAGGCCATGCCGGCGGA|AACGATGA
NCLIV_032310|GCGACAGAGATGTTGTCGAG|ICGATATGT
NCLIV_032350|TTGAGCGCCATGCGGTCTGA|GAGGATGG
NCLIV_032470|CTTCTCATATGGACCCACI|AGGGATGG
NCLIV_032500|TTCGGAGAAATGAGGCCGCA|AATGATGG
NCLIV_032540|AGAACAGCCATGCAGACGCG|ITTTTCATGT
NCLIV_032610|CTAGGTGAGATGAACCGGTC|ACGAATGT
NCLIV_032640|ACCTCTGATATGCATCCTTC|ITTCCATGC
NCLIV_032650|GTTGCACCGATGGCCGTTCT|IATTCATGT
NCLIV_032730|GATGGCGAGATGATCGACCA|AAAAGATGG
NCLIV_032780|CCGCGGGCGATGCAAATTTG|TCTCATGG
NCLIV_032850|AAAAACCAAATGGGAGGCGC|ACGGATGA
NCLIV_032970|ATTGGCGCAATGAAGGAGGA|TTCCATGA
NCLIV_033080|GTACATCCTATGGTGTTC|ITTGTATGA
NCLIV_033180|GCATCCCTGATGGAATGCCG|ITTAATGA
NCLIV_033240|CGTTTTGGGATGAATATTT|CIAATAATGC
NCLIV_033260|CAACTCTCAATGGACGCCTC|IAGTCATGT
NCLIV_033300|GGACGGGAGATGCTCTTCGC|ICAAAATGG
NCLIV_033390|CGAAAAGTGATGTTGCGCAG|IGGAGATGA
NCLIV_033400|CTCTACGCAATGAAAGTCGT|IGTATATGT
NCLIV_033410|CAGAGCGAGATGTCATCCTC|IATACATGT
NCLIV_033420|CCGCACCCGATGGAGTCAAG|ITCAGATGC
NCLIV_033430|GAAGGCCCGATGGTGTCTCC|IGGGAATGA
NCLIV_033440|TCTGCAGGGATGCTTCGCC|ITATCATGA

NCLIV_033460|GTCGGGCGGATGGTGAGCCG|GCTCATGT
NCLIV_033530|GTTGGTGTGATGCCGCCGTC|TCGGATGT
NCLIV_033570|GGACACCAAATGGCGTGTCT|GGACATGG
NCLIV_033640|TACGAAGACATGAGAAGTCG|TTATATGT
NCLIV_033660|GCCAAGTTCATGGCGTTCCT|GCTAATGT
NCLIV_033680|GGAACCGCGATGCCAGCCGC|GAATATGG
NCLIV_033690|CTCGGATCCATGGCGTCGCA|AGGCATGT
NCLIV_03371|ACAAACCGAATGGAGCAGTT|GTTTCATGT
NCLIV_033800|CTACAGCTGATGGGTACCCT|CAGAAATGC
NCLIV_033820|CGCAAATTTATGGAGATATG|CCCCATGG
NCLIV_033860|GTCTGCTCAATGGATTGCAG|ACTGATGT
NCLIV_033870|AGATCTGTGATGTTTCGGGAA|TTTAATGA
NCLIV_033900|GGTTTACCGATGGCGGACAG|TTGGATGC
NCLIV_033910|CGACAGGAAATGTCTGGTGG|GAGCATGT
NCLIV_033920|TTCTCAGAAATGCTAGAGAG|AGGCATGG
NCLIV_034020|CTTGAGGTCATGAAGGGCGT|AAGGATGC
NCLIV_034250|ACGCGAGAAATGCAGTCCAA|GGAGATGA
NCLIV_034260|GTGTAACCCATGGAGGGTCC|GTCGATGG
NCLIV_034285|CCGGTTGATATGTCATCGCA|GGCGATGG
NCLIV_034320|CGGTCAGCAATGTCGAGCCA|CCCGATGT
NCLIV_034330|AGAGAAGCCATGTCAATCGC|GTGAATGT
NCLIV_034370|CTCTGCCCGATGGCTGCCTC|CGCTATGT
NCLIV_034450|GACGCCGAATGCAGACTTC|CTGGATGC
NCLIV_034460|CGCAAGCAGATGGCGCAGAT|AAACATGC
NCLIV_034500|AGGGCAGTCATGTGTGTGAC|GAAAATGC
NCLIV_034570|ACAGGCTCCATGGAGAGCAT|CCCGATGC
NCLIV_034580|CTCGTCGAGATGACTGGGCG|CCCGATGG
NCLIV_034820|ATGTCTCCGATGGCAACCGC|GGAGATGT
NCLIV_034850|CAACGTGAGATGAGTCAGTC|CAGCATGT
NCLIV_034860|TATGACGCCATGTACCAGCT|GCTTATGA
NCLIV_034920|CTTCTGTACATGGAGGAATC|GACCATGG
NCLIV_034960|AATTTTCGACATGAGCCGAG|ATGCGATGG
NCLIV_035020|AATCACGAGATGCTTAACCG|CGAGATGT
NCLIV_035060|ACCGACCGGATGGCTACCGC|GGCCATGT
NCLIV_035100|TGTCTCGCGATGTTTTTGC|CATCATGT
NCLIV_035200|TCGACCGAAATGCTGTCTG|AICCTCATGC
NCLIV_035240|CTTGGATCCATGGATCGCGG|CTGCATGA
NCLIV_035340|GGGCTTCTGATGGAGGGCAT|TCGCATGC
NCLIV_035350|GAGAGGTCAATGGCGGACAG|TATAATGC
NCLIV_035450|GGTTTGGAGATGTGGGGCGA|CAGGATGG
NCLIV_035520|TTACAACCCATGGAGGCAGA|ACAGATGC
NCLIV_035530|GCAAACGCCATGACACCAGG|ITTCGATGT
NCLIV_035550|CGCAACTCAATGGTCTTTGT|ICGTCATGC
NCLIV_035660|CGGGAAGCCATGCCAACTGC|IAGATATGA
NCLIV_035720|GTTTCCTCCATGGCTTCCGC|ITGGCATGT
NCLIV_035750|GTCGCCCCCATGGCGGGGTC|ACCGATGT
NCLIV_035820|TTCTTCTCGATGGGGCGTTC|ICGCGATGC
NCLIV_035840|TCGGGTTCCATGGAGGCATC|TCTCATGT
NCLIV_035890|TATGCTGAGATGCCAATGGA|GGATATGC
NCLIV_035900|GCTCAGGAAATGATTTCGTG|TATGCATGC
NCLIV_035930|ATTCCCAGATGTCCAGGAA|TTGCATGC
NCLIV_035980|GCGTTGCCGATGGTGGCCTT|ITGGCATGT
NCLIV_036010|GTCTCCGTCATGCATCCCGG|GTGTATGT
NCLIV_036050|CCCTCCTTCATGGAGGAACA|AAACATGT
NCLIV_036070|TTTTATTGCATGGCAGGCTA|GAGGATGT
NCLIV_036080|AAAGAAGCCATGTCGAACTC|ICTCGATGC
NCLIV_036090|GTAGCAGCCATGTCGGGTT|ICGTCATGT
NCLIV_036370|CTGCAAGCAATGCGTCGGCG|CAAGATGT
NCLIV_036420|TCTTTGTCAATGGGAAAAGC|ICCGAATGT
NCLIV_036440|GTTGAAGGGATGCCAGCTTG|ICGTGATGC

NCLIV_036530|GCTCGTGCGATGTGCAATCT|GGCCATGG
NCLIV_036550|TGAATCGCCATGCCGTCGAG|CCTGATGA
NCLIV_036560|CAAGGACATATGGGGGGGAC|TAGAATGC
NCLIV_036570|CTTGCTCAAATGGAAGGCCG|TCGAATGA
NCLIV_036600|AAATCGCCAATGGGCAAGCA|TCAGATGA
NCLIV_036620|ATCTCCAGATGGCGTCTCC|GTGCATGT
NCLIV_036650|TCTCTCCAGATGGCAGCGCC|GCTGATGA
NCLIV_0367|TTTTCTCAATGGAATCTGA|GGCCATGG
NCLIV_036710|AACACGCGAATGGTCTTCAC|CTGTATGG
NCLIV_036730|GACATAGACATGCGCTTCTT|TGCCATGT
NCLIV_036790|TTTGTCGCGATGACGGCGCT|TCCCATGT
NCLIV_036820|GCACGAGGGATGCCACGGGA|GCCTATGC
NCLIV_036880|GCCGACCAGATGGCGGAACC|TGCTATGT
NCLIV_036900|AGAGACGACATGCACGCATG|GTACATGC
NCLIV_036920|GAAGCCCACATGGAGAATCC|IGCGTATGC
NCLIV_036940|CCGCGGGTGATGAGAGGTGC|ICAAAATGC
NCLIV_037010|CTGGTAGAAATGATCAGCAA|ICGCCATGG
NCLIV_037020|ACCGCACCAATGGACGGTGC|ICGGGATGT
NCLIV_037030|AGTTCCGCTATGAAGCGTGT|TGCCATGC
NCLIV_037050|AGTGGAGACATGACCAATCC|ICCCGATGC
NCLIV_037190|GGGCGGGCAATGACGCGCGG|ACACATGG
NCLIV_037200|GCGTGGCGAATGGAGTTCCG|GTTGATGG
NCLIV_037350|GTGGAGCGAATGGTTCTCGC|ICGGGATGC
NCLIV_037390|GAAACCCTCATGGGATCTCA|AGGTATGG
NCLIV_037440|AAGAACGAAATGTGGCCGCA|ICCTCATGC
NCLIV_037450|GTCCCCGCCATGCTGCTCTA|GTGGATGC
NCLIV_037580|CGTGCGGCAATGTCACGCAG|TGAGATGC
NCLIV_0376|CACTTCTCCATGGAAGCCTT|AGTTATGG
NCLIV_037610|AGTCTCGAGATGCGAGGCTC|AGTGATGT
NCLIV_037720|TACCAACGTATGGCGGATCC|ICGTCATGG
NCLIV_037740|GTTTCGGAGATGTGGGTCCG|IAAAAATGT
NCLIV_037760|ATTCCGGGAATGGCCGGGGT|IGCCTATGC
NCLIV_037800|GTCTCTTCGATGGCGAGAGT|CATCATGC
NCLIV_037850|GTCGCCGATATGAGAGTTGC|CTTGATGT
NCLIV_037890|ACAACTCGATGGCGCCTGC|GTAGATGT
NCLIV_037910|TTCTCCTCGATGGTTTTGCC|TCACATGG
NCLIV_037990|TTTTTCGCGATGAAGGCAGG|AAGAATGG
NCLIV_038025|TCTCCTGAAATGAACTCTCC|IACGCATGC
NCLIV_038040|TTGACCGCGATGTCGTACCT|AAGAATGC
NCLIV_038090|CGGCGACCCATGGCTCAAAG|IGGGCATGC
CHROMOSOME IX
NCLIV_038340|TTGAACGCTATGTGGGAATC|AACAATGC
NCLIV_038420|GACAGCGAGATGCCGCGAGC|GAAAATGG
NCLIV_038460|GATCAGGAGATGCTTGTGAA|AGGGATGT
NCLIV_038470|TGGAGAGCGATGTTTGAGAG|GCGGATGT
NCLIV_038480|GCCGGGGATATGAGTGCCTC|ATGCATGC
NCLIV_038490|CTTGCCTCGATGGCGTCTTC|IGAGAATGC
NCLIV_038500|GCGGTGCGAAATGCCGCCACC|IATACATGC
NCLIV_038560|TCTGTCGCCATGCTGTCTGT|IATGCATGC
NCLIV_038580|GCCTTCGCCATGACGACTCC|ICGCGATGG
NCLIV_038700|AGTGCCATCATGGCTTGTCTG|TCGCATGA
NCLIV_038720|CACAAGGACATGAGAGAAGT|TTTTATGT
NCLIV_038780|TATTTTCAGATGGCGCCTGT|TCGTATGT
NCLIV_038810|GAGTATCTGATGGAGAGGCG|GTACATGA
NCLIV_038820|CTCCAACCAATGGAGACCTC|IACCATGG
NCLIV_038850|GCTTCCGCTATGAAAACCTC|ICCCGATGT
NCLIV_038890|GGAGTCGCCATGAGCTCGTT|AAACATGC
NCLIV_039150|TCAGGGGCAATGCCGAACCA|ITGCAATGT
NCLIV_039200|TCTTCGGCGATGTCGACTGT|TCTCATGG
NCLIV_039350|GTGTCGGGAATGACAACGTCT|ACTGATGC

NCLIV_039430|ACTGGGGCCATGTCCCGCTT|CTGTATGC
NCLIV_039450|TTTTCTCAGATGGTAAGTCC|AACAATGT
NCLIV_039480|ACGATTTTTATGGACACGAT|CAGCATGC
NCLIV_039660|CCTTTGCTGATGGAGGAGGA|GTCAATGT
NCLIV_039670|ACTCTCCACATGGCGCAGCC|GTCCATGC
NCLIV_039730|GGTTTTTCAGATGGCATCATT|GGAGATGG
NCLIV_039740|CACGAAGCAATGAGTTTTTC|GAAAAATGC
NCLIV_039780|AAACGCGAAATGCACGACAT|GTCTATGG
NCLIV_039790|AGGAGAGAGATGACGACTCC|AAGGATGC
NCLIV_039810|TCAAACGAGATGCTGGAGCC|GACAATGA
NCLIV_039830|TGCGCAGCAATGCCAGCAGG|AAGCATGC
NCLIV_040000|TCGTCCGGGATGCCTGCGTC|TTGCATGC
NCLIV_040010|GCGGACGCCATGACGCAAAA|ATCTATGC
NCLIV_040040|TTGTCCGCCATGTCTCTCTC|IGGGTATGC
NCLIV_040100|GTAGCGCCAATGGAAAAAAG|ICTACATGA
NCLIV_040210|AAAGAGCTGATGGCGGTA|AAICTTGATGG
NCLIV_040230|TTGACACACATGGCGGGACC|TCGGATGC
NCLIV_040260|GATGCCGGTATGAGACGCGG|ICTCGATGC
NCLIV_040300|GAGAACGCGATGCCTTCTCC|AAAAATGA
NCLIV_040320|CTGGAGGGGATGACGGCAGA|AAAAATGA
NCLIV_040370|GGAGACCAGCTGAAGAAGTC|ICGGCATGC
NCLIV_040550|GGTACGCTCATGGCGGGCAC|CCTTATGC
NCLIV_040560|GCGAGCGAAATGATACGACT|IAGGAATGG
NCLIV_040600|CGCCTCCCATGGCTGCATC|ICTCCATGT
NCLIV_040610|GGAAAGGCGATGAGTTTCT|IGTGGATGT
NCLIV_040620|CGCGTGCCAATGGGGCAACA|TACAATGT
NCLIV_040640|GGTTACGTCATGTCAATTT|CIAACATGG
NCLIV_040650|CGCGCGCGTATGGGTATAA|TGGAGATGC
NCLIV_040660|CAAGCTCCAATGGCAGCAGG|ITATAATGT
NCLIV_040680|GATGCTCCAATGGTAGAACG|ICCCGATGC
NCLIV_040700|TGTTTGGACATGAGGCGATC|ICTTTATGC
NCLIV_040820|GAGCAACAGATGGAGCGTCT|IGTAGATGA
NCLIV_040850|GCAGGTTCGATGGGCCGTGA|IAGGCATGG
NCLIV_041090|ACAGTCTGCATGGGCATGAT|IGGCCATGG
NCLIV_041200|GTTCCCGAGATGAATCCTCA|ICATGATGT
NCLIV_041300|GTGCTTTTTATGGCGCACCA|IAAGTATGC
NCLIV_041320|GGCGAACAGATGGTGGCGAG|ICTGGATGT
NCLIV_041350|TCTGCGGACATGTCGCCTTC|ICTCCATGA
NCLIV_041360|GTTTTTGTGATGCTTTTCAT|IGGTTATGA
NCLIV_041420|ACCTACAACCTCGTTCCAGG|ITGAGATGT
NCLIV_041460|GTCCACGAAATGTCGCTGGC|IATCCATGC
NCLIV_041490|AGTCTTCAAATGGTGCGAGA|ITGAGATGT
NCLIV_041620|TGCAGGGAGATGTACGCCTC|IACATATGT
NCLIV_041690|GATTCGCAGTTCGCTTCCCC|ICAAGATGT
NCLIV_041710|CCCTCTTCGATGGCGGAAGC|IATGAATGC
NCLIV_041860|TGAACAGGAATGTCCACGAT|ICGCCATGA
NCLIV_041980|CCCCTCCCTATGGCGGTGCC|ICGGCATGT
NCLIV_042030|TCTCCTTCAATGGAGAGAGG|IGAAGATGT
NCLIV_042050|ACAGCCGCAATGTCTCCCTC|ICCACATGC
NCLIV_042140|ACCTTTCCAATGGAGGCTCG|GAACATGG
NCLIV_042150|GCCTTCGTCATGCGAAGAAC|IGTTCATGT
NCLIV_042170|ACGGAGCCGATGGGGCTGCC|IATGCATGT
NCLIV_042310|CAGCCGCCAATGGAAGAAGC|ICTTTATGC
NCLIV_042360|CCATCCTCAATGGCTCTGAC|IGCGTATGC
NCLIV_042380|AACCGCCACATGGAGACGGG|ITCGTATGC
NCLIV_042410|TTCTCCCCATGGCGCTCAG|ICCGCATGG
NCLIV_042430|TTCCCCTATATGGATCGGAC|IAGCGATGT
NCLIV_042550|CAACACGCGATGAATCCGTC|ITCAAATGA
NCLIV_042580|TCCTTGGGAATGAAATCACT|ITCTAATGT
NCLIV_042610|TTTTGGCACATGGCGTCTGC|IACCCATGC

NCLIV_042730|GCGGGCGTCATGCCGGGTCC|CTGTATGC
NCLIV_042740|GACGTCCAAATGGAGGAGAC|AAGGATGT
NCLIV_042770|CGCCTCGTCATGACTCTGCC|GAGGATGG
NCLIV_042800|TCCTTGCTGATGGCAAAGT|ACACATGT
NCLIV_042840|AACGCCGCGATGTTTGAAG|ITGATATGT
NCLIV_042860|CTCAGACATATGGCGGGGCA|ITGGATGC
NCLIV_042890|GCCACACGTATGGGCCGTCT|CAGGATGA
NCLIV_042940|TTGCCTTCCATGGCGGCCGC|ITATCATGC
NCLIV_042950|CCCGTGGAAATGGGGGCC|IGCGGATGC
NCLIV_042990|TTTTGCGACATGTCGGTGGC|IGCACATGT
NCLIV_043060|GGCGAGGGTATGCGAGCCCG|ICTTCATGT
NCLIV_043120|GATTCCCTCATGGAAGACGA|ITCCATGC
NCLIV_043130|TTGTTCGCGATGTA|CTGCCG|ITTTATGA
NCLIV_043240|AGCGTTGCGATGAGGGATG|TIAAAAATGA
NCLIV_043320|GCGCTTGGGATGTCCCCAA|AIGTCATGA
NCLIV_043400|CGCGGCTCTATGGCGAAGG|AIGCGCATGC
NCLIV_043540|CATGCCGATATGTATCCCAC|IGCCCATGC
NCLIV_043570|TCCTGCGCCATGTTGGTCT|CIGTGCATGC
NCLIV_043600|GTAGAATTCATGGCCAAAGG|ICTTTATGC
NCLIV_043601|TGGAGTGGAAATGAGAACA|ATIGACAATGA
NCLIV_043610|TCCCGCGCCATGAGTCAGCT|ITCGCATGA
NCLIV_043620|TGTTTTTCGATGGCGCCTCT|ITCGTATGT
NCLIV_043630|CCGAGGGCAATGACTCCTCT|ITGAAATGA
NCLIV_043770|TTCTTCGCCATGTTCCCTCA|AICTGCATGC
NCLIV_043930|CCCAAACCCATGGCCACCA|AIGGTGATGG
NCLIV_043970|CCTCGCCCCATGGAGGCCAG|IGTGAATGC
NCLIV_044010|TGTCCTCGGATGGATCGCGT|IGCTCATGT
NCLIV_044050|TCTAAGTCAATGGTAAGTGG|ITCACATGA
NCLIV_044080|GCGCGACACATGGGGGACTC|IGGACATGA
NCLIV_044090|GGCTTTTGCATGGAAAGGC|A|TACAATGG
NCLIV_044100|ACGCGAGACATGCAACAACC|IGGAGATGC
NCLIV_044140|TGCAGCCCCATGGCCGGCAT|ITTTTCATGC
NCLIV_044180|GTCCATGGCATGCCGCCTCC|IGTCCATGG
NCLIV_044200|CCTCGGCGGATGGACGAGCA|ICGAGATGC
NCLIV_044210|CAAGCGGAAATGTTCGCATCT|ATCCATGA
NCLIV_044255|CCGGTCGAGATGAGCGCATC|ICGCAATGC
NCLIV_044260|CTAGGGCCCATGGAGGAAT|ICCTCATGT
NCLIV_044280|GAGAGCGAGATGTTCTGTT|CIATGCATGC
NCLIV_044300|GAGTCCCAGATGGCGGAAAC|IAGTTATGA
NCLIV_044320|GTAGCCGTCATGAGGCCCTC|IGGACATGC
NCLIV_044410|TGTCGGGCGATGAGGGTCCG|GIGAGAATGA
NCLIV_044420|GGGGCGCGAATGGACCGAAA|IAGCCATGC
NCLIV_044430|CTCCTGGCCATGTCAAACCC|ICTCCATGG
NCLIV_044510|GTCCGCTTCATGGCTGCTAA|IAGATATGC
NCLIV_044630|CAGGCAGTCATGCCCCCTC|ICTAGATGT
NCLIV_044665|CAGGGCGCGATGCTCCTCGC|ICAGCATGG
NCLIV_044680|CGTCTATCGATGGAGGGACT|IGTAGATGA
NCLIV_044710|AAGGCTTCCATGGTCAGGCT|ITCCTATGG
NCLIV_044760|GCAGCCTTCATGGCGGGATT|ITCGCATGA
NCLIV_044810|ACCGCGGCCATGCCAGACGC|IGCAGATGG
NCLIV_044830|CGCGTTCTGATGGGAAACGG|ITTTGATGG
CHROMOSOME X
NCLIV_044860|TCGAATCGTATGGGAGCGGG|ICGCCATGG
NCLIV_044900|CTCTTCTCAATGGCGAACCC|IAAACATGA
NCLIV_044910|CTGTGCGGAGATGCAGTCTT|CIAGCGATGG
NCLIV_045110|CTAATCTCCATGGGGAGAAC|ICCCAATGC
NCLIV_045130|CTTCAGTGGATGGTGCAACCI|ATGCATGT
NCLIV_045230|GCTGCGGCGATGTTGAAGCG|IAGAGATGC
NCLIV_045270|AGCGAAGGGATGTCTTTTCT|IGAAGATGG
NCLIV_045420|TACCAGGGATGTCGCCGCA|ICAGCATGC

NCLIV_045430|CTGACTCAGCAACTGCTGCT|GAACATGT
NCLIV_045520|TTTCCATCCATGGAGGGCGG|GGCGATGC
NCLIV_045600|GCCCTCGCCATGCAAGGAGA|CAAAATGC
NCLIV_045730|GATTTGGAGATGACCACGGG|GTAGATGA
NCLIV_045790|AAGCTGGACATGCTGACCAA|AAAAATGT
NCLIV_045820|AAGGATCAGATGGAGACAGC|GTGGATGG
NCLIV_045830|ATCGAAGAAATGACCAGAAG|ICTCGATGC
NCLIV_045850|TCGCCGTCAATGGACTCAAT|GAGAATGT
NCLIV_045910|CGCGCTCCCATGGCGCCTCC|ATCCATGG
NCLIV_045920|TTGAGAGAAATGCGGACGGG|AAGGATGG
NCLIV_045940|CGTTAGGTGATGAAGTTCGG|TGCCATGT
NCLIV_045970|AAACGCGGCATGCCGCAACG|GTTGATGG
NCLIV_046000|CACTCTGCCATGCTTGAAT|ICGCCATGC
NCLIV_046120|TGAGGCCCTATGGCGCCTCC|ATATATGC
NCLIV_046130|CTCGACGCCATGCCGAGAGA|ACGCATGT
NCLIV_046160|AAAGGCGACATGCAACGGAA|GAAGATGG
NCLIV_046220|GGGGAAGGAATGTCCGTGCA|CCGCATGC
NCLIV_046330|AACGGCGAGATGAAGGCGAA|ATGCATGC
NCLIV_046370|GCTTTTCAGATGGATTCTAA|GCGCATGC
NCLIV_046425|GCGCAGGAGATGATCGCGAG|GAGAATGC
NCLIV_046490|CTACATGGAATGAACTCTCC|CTACATGG
NCLIV_046540|CAAAGTGTCATGCTTTTCCT|ICGGGATGG
NCLIV_046650|CGGTGCTGCATGGAAAGTAT|TTTGATGT
NCLIV_046690|TTGCACCCAATGGACCCGCA|ACGCATGG
NCLIV_046730|GTTGTGCGAATGACATGCAT|CTCCATGT
NCLIV_046740|TGAAGAGCCATGTGGGCTTT|ATCAATGC
NCLIV_046770|TCGCCGCAGATGGAAGGCAG|CAGGATGC
NCLIV_046820|AACCCGCCCATGGCACCACT|GTGAATGT
NCLIV_046910|GCTCCGCTGATGGATTCTGC|CCTCATGC
NCLIV_047000|TTTCTCGAGATGCCGCACAG|TCAGATGT
NCLIV_047010|TTTTCCTTGATGGAACGCCA|GTTGATGT
NCLIV_047020|GTAAGTGCCATGTGCCGCAA|CTCTATGC
NCLIV_047100|TCCTCCGAGATGTTTCCGTT|ACAGATGC
NCLIV_047220|TCTCCAGAGATGCCACTCAA|GTGTATGT
NCLIV_047230|GCTCATGGGATGTCTCGTT|CIGTCATGG
NCLIV_047310|GATGCCCTCATGGCTCGCAT|GCAGATGC
NCLIV_047320|AACATCTAAATGGCTTCCCG|ACTGATGG
NCLIV_047380|GGAGTTCCAATGGCAAGCTT|CCTCATGT
NCLIV_047390|TCTGGCCCCATGGCTGTCTT|TGTCATGT
NCLIV_047440|CTCGCCGTGATGTCGTCTCT|TTGTCATGC
NCLIV_047470|GTGCCACGGATGGCGTCTTG|ATAAATGA
NCLIV_047560|CGCGGCTCCATGGCGCAGAC|CTGCATGC
NCLIV_047760|ACAGGGGCCATGCTGCGACG|TCCTATGT
NCLIV_047770|TCTCCCCAGGCGTCTTCGCA|TGCCATGC
NCLIV_047780|GAAAGGGGAATGAAGAGAGA|TTGCATGC
NCLIV_047800|GCCTCCTTCATGGTCCCCCG|ITCCAATGA
NCLIV_047870|GTCTCTCCAATGGAGGGGAC|CGTAATGT
NCLIV_047900|CGAGGGGCAATGCGCGAACA|CACAATGA
NCLIV_047970|CGACTGGAAATGTTGTGGAC|GTTTATGT
NCLIV_047990|TTCTCTCCCATGGCGCTTCC|ITGCGATGA
NCLIV_048040|GATACCGAGATGAACTGGCC|IAGCGATGA
NCLIV_048060|AGAACACCTATGGACAGCCA|ICTCAATGG
NCLIV_048070|CTCCATGGAATGAAGCGGCA|ICTCCATGG
NCLIV_048130|GTCGGCGCAATGTTTCGCTA|GAAGATGA
NCLIV_048150|GGTTTTCCCATGGATGGCAT|IACGCATGC
NCLIV_048290|CGAAAGCAGATGGCTGACGC|ICTCGATGC
NCLIV_048310|CAGACAGCGATGTTTTCACG|ICTCCATGT
NCLIV_048340|CCTGTGCAAATGTCGCGCGT|TTCCATGC
NCLIV_048390|CTCTTCTCCATGGAGTCTCT|ITGCGATGA
NCLIV_048480|GGGCGTCCGATGGCAGCGCG|IATTGATGG

NCLIV_048630|ATCTCCGCCATGCACAGACT|GCCGATGC
NCLIV_048640|TCTGCAGCCATGAAACGCTC|GAGGATGT
NCLIV_048660|TTAGACCACATGGCGTCTCC|ATGGATGA
NCLIV_048760|GAAACCGAGATGACGCTTTT|TTCCATGT
NCLIV_048860|CTCGGTTCAATGGACTGG|TGTCATGC
NCLIV_048910|CTCGGCCAGATGGACCAGCT|CGGGATGG
NCLIV_048920|TCGTTACCAATGGACTGTAC|ICTGGATGT
NCLIV_049020|TCTCGACAAATGGGTAAGGC|ICCAAATGG
NCLIV_049070|ACACATTTTCATGGCAATCAA|TGTTATGC
NCLIV_049290|AAACGAGCCATGAAAGACTA|ATCTATGT
NCLIV_049380|CTACCGGTGATGCTCGAAGA|CACCATGA
NCLIV_049490|CAGGAGGCCATGTGGGGTTC|TCTAATGG
NCLIV_049630|CAATCGGACATGACTTGCTG|TCACATGC
NCLIV_049670|TTGTGCGCGATGAGAGGCCT|ACGCATGC
NCLIV_049690|GATCGAGGAATGTACCCGGA|AGCAATGG
NCLIV_049730|CGGCTACAGATGGCGCCGCG|IGAACATGT
NCLIV_049800|GCCGACGCGATGCTGGCCGG|TGACATGC
NCLIV_049860|GCGCTGCCGATGGCGACGCG|IGCGCATGC
NCLIV_049880|ACTGGGGAAATGCAGACTGT|ICTGTATGG
NCLIV_049945|TGTCGGGGGATGCGCTCCGG|CAACATGG
NCLIV_050070|TACTCGCAAATGGTCCTTT|CIGTACATGT
NCLIV_050140|TCTGTCCGCATGGACGAAAG|GAAGATGC
NCLIV_050150|GCAAGCGGCATGCAGACACCI|ATTCATGC
NCLIV_050160|CTCTTCGCCATGTGGCTGCG|TGTTATGT
NCLIV_050270|GTTGTAGACATGTCCCTTT|CIACGGATGT
NCLIV_050280|TGCTTCGTCATGATTTTCT|GTTTCATGG
NCLIV_050350|AAAGGCCTCATGGGTTCT|CTTATGATGC
NCLIV_050380|TCTGAGCAGGTGAACATTT|CICAACATGG
NCLIV_050440|CGTTCACTCATGGACCTTT|TICACCATGT
NCLIV_050530|CTCGCCGCCATGCCTCCGAT|GAGTATGG
NCLIV_050550|CGAGTCGCAATGTCGCCGCC|TCAGATGC
NCLIV_050560|AACTGCGTCATGATTGTGGC|ACACATGT
NCLIV_050640|ATCATACAAATGGAGGAATT|AAAAATGT
NCLIV_050660|TCTCTGGAGATGAAGCGGT|IAGAAATGA
NCLIV_050690|GTGCCGGTGATGATTCTGAA|TCATATGT
NCLIV_050720|AGCGACGCGATGACAGGCAA|IAGGTATGT
NCLIV_050730|CGACACGCCATGCCACGCGG|IATACATGT
NCLIV_050820|AGACAGCAAATGGCAGACAA|TCTGATGA
NCLIV_050840|AACTCGGCAATGTCGACTTC|TTTCGATGC
NCLIV_050930|TTCGTAGGGATGATCGATAT|GCTCATGC
NCLIV_051030|GTCAGTCGCATGGCAGGAGT|ACCCATGT
NCLIV_051160|CCGAAGGCTATGTCCCAACG|IAAACATGC
NCLIV_051190|TCTCTGTAGGGGGGCGGACT|AAGCATGC
NCLIV_051240|AGCGCCGCCATGCCAGTGT|TCCAGATGT
NCLIV_051260|TTCTCAGTTATGCCGCACGG|ICCCGATGC
NCLIV_051270|CGCCCCCAGATGGCAAGCGC|IAGAAATGC
NCLIV_051290|GGCCGGGACATGAATCGGAA|IAAAAATGT
NCLIV_051340|TCCATACAGCTTTCCCGCTT|IAATGATGA
NCLIV_051410|TCGCCTGCCATGAGCCCAGT|TCTCATGG
NCLIV_051440|TTTTGTCTAATGGCCGAGCT|ITCCGATGC
NCLIV_051450|ACAGGCGTGATGAAGGAAGC|ITCCATGT
NCLIV_051470|GGCTTCGAGATGAGCTCTCT|TCATATGT
NCLIV_051490|GAAACCGGAATGTCGCGGGC|ITCCCATGT
NCLIV_051540|GGGATTTCAATGGAGGAGGC|ITGAGATGG
NCLIV_051550|GGAGTGGCAATGATCGGTTT|ITGAGATGA
NCLIV_051561|NNNNNNNNNCGGGCCTCTCC|ICGCAATGT
NCLIV_051600|TCCTTTTCTATGGTTGCTGC|IGAAAATGT
NCLIV_051790|GAGACTTCTATGGATCTAAC|IGCCGATGC
NCLIV_051800|GTTGCGGAAATGCGCGTCCC|ITCAAATGC
NCLIV_051810|CGCCTCGCCATGACGCTCTC|IGTATATGG

NCLIV_051830|CTTCAGGCGATGCTGAGGCG|AAAAATGA
NCLIV_051890|CTTCTTTCCATGGCGGAGGCIATGCATGT
NCLIV_052040|TTGCACGACATGACGCTCCT|CTCGATGT
NCLIV_052060|AAGCGCTACATGGCTGCCTC|CTATATGC
NCLIV_052100|TCGGCCCCAATGGAGGTA|AINCTCATGG
NCLIV_052220|AAGCCTGCAATGCTGGTGCT|CTCTATGT
NCLIV_052290|ACCCCCACATGGATGGCTC|CCGCATGC
NCLIV_052350|GTCGCCGCCATGCAGCTTAC|CGCCATGC
NCLIV_052360|TGTGCGTCCATGGCGACATC|GGGGATGC
NCLIV_052420|TTCTGCCAGGCCGCCGACCT|GATGATGA
NCLIV_052430|GTTGTTCTAATGGGGGGCGT|AAAAATGT
NCLIV_052440|CCAAAAGCAATGCCAGCTCT|GACTATGC
NCLIV_052500|ATTGGAGAAATGCTTGGCGCI|AGACATGG
NCLIV_052620|ACGTCCCCGATGGCACGCTC|GCACATGC
NCLIV_052640|ACCACCGAAATGAGTCGAAT|AACCATGA
NCLIV_052690|CTCAAAGCCATGACCGCCTG|GGGGATGT
NCLIV_052720|GTCTCCGAAATGAGGCGACT|TTTTGATGT
NCLIV_052740|GCCATTTTGATGGCACTTATIC|GAAATGA
NCLIV_052780|TCCCTCTTCATGGCGGATT|AACGATGC
NCLIV_052790|TCTCTCGCCATGTCGTCTCC|GCATATGG
NCLIV_052860|GTACGGCAAATGGAGCCCTA|ITGTAATGC
NCLIV_052920|TCTAAAGCGATGTCAACCCT|CAACATGG
NCLIV_052960|TCGCTGCCATGGTGGGGAG|CAGCATGG
NCLIV_052970|CCCTTCCCGATGGTTCTGCI|CCCGATGT
NCLIV_052990|ACCGGAGAGATGCTGCGGCT|ATATATGT
NCLIV_053020|TCCTTCGCCATGCCGATTT|CIAGGCATGC

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NCLIV_053290|GCGGGCTCGATGGTGCTTCT|GAGAATGC
NCLIV_053310|CCTGCAGATATGACGGACCC|TTTTGATGA
NCLIV_053320|TTTCAGCAAATGGCAGCGGA|GTGCATGC
NCLIV_053330|ACTGCGTCAATGGCAGATCC|TGAAATGA
NCLIV_053460|CTTTTCTCGATGGCGGCTT|CIACACATGC
NCLIV_053630|CGTCTCTCCATGGGCCCCCC|GTGCATGC
NCLIV_053650|TCCGTGACATGCGTTCTG|CICGTCGAC
NCLIV_053680|GTCGCCAGATGGGAAACGC|ITGCAATGC
NCLIV_053690|ACTGGCTTCATGGAGGAAAG|ITCCATGA
NCLIV_053900|TCCCGTGAGATGTTTCTGT|ITCGAATGG
NCLIV_053970|TGCCGACAGATGGAGGCCTT|CAGAATGT
NCLIV_053980|GTGGAGGAAATGTGTCTTCC|CCGAATGG
NCLIV_054060|GCGGGGGAAATGTGTGGGG|AITCCCATGT
NCLIV_054070|CGAATCGCCATGACTGCGTC|ITCGAATGG
NCLIV_054140|CTTTTTCAGGAACACACCT|IAGCGATGC
NCLIV_054150|TTCCACCCAATGGCGGAGGT|TTACATGG
NCLIV_054240|GTTGTGCGAGATGTCGCTC|CTCAGCATGG
NCLIV_054270|CAAGCAGACATGCTGCCGCC|CTAAATGC
NCLIV_054485|TCAAAGGCAATGTCTCCTCG|AAAGATGC
NCLIV_054510|GAGGCGTGCATGGAGGCGCT|ICCGATGG
NCLIV_054610|GGCGAGGAGATGAACAGGCA|ITGCATGT
NCLIV_054670|ATCCAACAGATGGCAGCGTG|IGAAGATGG
NCLIV_054710|GTGTTGGAATGACTTCTCT|IGAGCATGG
NCLIV_054730|TGGAGGGATATGCCCAACTT|AAGAATGG
NCLIV_054810|GGAAGAGGAATGCGTCGTTT|ICGGAATGC
NCLIV_054850|TCGACACCTATGGGCCAGT|ICCGTATGC
NCLIV_054890|TAGAAAGAAATGAAGAACAG|IGCGGATGC
NCLIV_054910|CCCTCGGCAATGCGCGTGT|CIGACAAATGC
NCLIV_054930|GAGGCCGAGATGAAGCTGGA|IAGGGATGC
NCLIV_055060|CACGAAGAAATGCGGCGTCG|ITCCGATGT
NCLIV_055080|GTCAAAGTGATGTGTGCTGA|ICGTCATGG
NCLIV_055120|CATGTGACATGTCGAAAGT|IGAGCATGT
NCLIV_055160|TCCAAACTCATGGACCTCTT|ICAGCATGG

NCLIV_055180|TCGGGTGTCATGACACCGGT|TGGAAATGC
NCLIV_055270|ACGAGAGCCATGTCCACAAGIAGACATGA
NCLIV_055340|ACGGCGTTCATGGAGCGTCT|CTCAATGT
NCLIV_055400|GATGCACACATGGCCCTGTT|CTGGATGC
NCLIV_055410|CTTCCC GCCATGCTTCCCACIACGCATGA
NCLIV_055500|TTTCCC GCCATGCCACTACCITCAAATGG
NCLIV_055510|GTCCTGTCATGAACGGCTG|GAAAATGT
NCLIV_055540|AGAAACGGAATGTTTCAGCGGIGCGAATGA
NCLIV_055560|CTCTGCGCAATGCAGGTCACI|GAAGATGC
NCLIV_055670|TGCCCCGTATGGTCCCTCGI|ACCGATGG
NCLIV_055720|TCGAGACAAATGGGCAGCGGI|AAGCATGG
NCLIV_055750|CCTGTCTCAATGGCTTCTTT|IATACATGG
NCLIV_055790|ACCTTGCCGATGGCTCCGCGI|AGAAATGG
NCLIV_055910|GTTTACGCCATGTCCTGGT|CIGCGGATGG
NCLIV_055960|CCACCTCTGATGGCGCTGCC|TTATATGT
NCLIV_056040|TGCGGCTCCATGGCGTCACC|TTTCATGC
NCLIV_056050|GCTCTGGCCATGCAGCGGCA|CCCCGATGC
NCLIV_056070|CGAAAAGGCATGCATGGGAA|GACGATGG
NCLIV_056080|TCCTTCGCCATGAGTCACAGI|AGAGATGA
NCLIV_056180|GCGATTGAAATGCTGGCGAA|TGGTATGC
NCLIV_056230|AATTCCCCTATGGCGCAAGC|GTGCATGC
NCLIV_056240|TTTCACTGGATGGCGACAGC|TGGCATGA
NCLIV_056250|GCCGCCAGCTTCGCATCCA|IGAGAATGG
NCLIV_056270|TCATGAGCAATGAGCGATGC|CCTCATGA
NCLIV_056280|ATTTATCAGAACAACCTT|TTGAATGT
NCLIV_056450|TTTAGCGAAATGTCCAGCGC|TTGCATGC
NCLIV_056600|AAAGGAGAGATGAGTAGACC|CTGCATGC
NCLIV_056610|TTCCGGTAGTTCTGCATTCT|IGAGTATGT
NCLIV_056770|GTTTCGCGAAATGAAAAGTT|ICCGTATGA
NCLIV_056790|AGCTTCGCGATGTCTGCTGCI|AGCCATGA
NCLIV_056800|CCTTCCGCAATGTCGGCCCT|TCGCATGC
NCLIV_057160|TAGTCTGGAATGCTCGTATG|ATAAATGT
NCLIV_057200|CAGTCCGCAATGTCGATCAT|IGAGAATGA
NCLIV_057310|GAAACCGTGATGAGCTCTGC|TAGGATGT
NCLIV_057400|AGAGCCTGGATGGTTCACGC|CAATATGC
NCLIV_057520|GTGACGGAATGAGCCTCGGI|GTGGATGG
NCLIV_057560|GTGCGTCCATGGCGGCTTC|ICGCATGT
NCLIV_057590|GTGGGGGCGATGCTACTGGC|ITCTGATGG
NCLIV_057600|ATTCCC GCCATGTGTCAAGC|GCAGATGC
NCLIV_057610|CCGCATCAAATGGCGCCATC|ATGCATGA
NCLIV_057740|AAGTGACACATGGCCTCGAC|ICGTCATGA
NCLIV_057800|CGCCTGGCGATGCCCGCCC|GACCATGG
NCLIV_057830|TTCCGATCCATGGAGACACA|TTTGATGC
NCLIV_057840|CGTGTGGAATGTACACGTG|GGATATGC
NCLIV_057910|TCGGCAGAGATGACGGCGAG|GGCAGAG
NCLIV_057980|TGTGTCCCAATGGCGCTCAG|GATGATGC
NCLIV_058020|TCCAACGCGATGAACGGCTA|IGAGGATGG
NCLIV_058030|CGACCTCACATGGCTGTGCC|GGGAATGG
NCLIV_058080|CGTTTCTATATGGCATCTAG|GTAGATGT
NCLIV_058110|GTGGCCTCCATGGCAGGGAC|GTATATGT
NCLIV_058120|ACCGCAGAAATGCAGTTTCG|AAGACATGC
NCLIV_058250|TTTCCAGCTATGCCCTCCCC|TATTATGG
NCLIV_058270|CGTGACCGGATGGCGCCCGT|IAGATATGC
NCLIV_058350|AGCGTCCAAATGGATCTCTC|IAGCTATGC
NCLIV_058370|TCGACCGCGATGTTCAACGGI|ATGCATGG
NCLIV_058380|CCCGTCCACATGGCCCGCCT|CGTCCAC
NCLIV_058390|GAAGACCCGATGGCAGGACA|IAGACCCG
NCLIV_058400|GCCGTGTCATGCCGCCCTCG|ICTCGATGC
NCLIV_058410|GAACAGGCAATGCACAGTGT|ITGGCATGC
NCLIV_058480|CCTCCC GCAATGCCTTTTCT|IGACAATGT

NCLIV_058490|GCGCGGTTAATGGCTGCTCT|CGCTATGG
NCLIV_058590|TCTGTAGCCATGAATATCTC|IGTCGATGT
NCLIV_058630|CTCCTCGCCATGACGCTTGC|ICTCGATGC
NCLIV_058690|CCGTTTTGTATGGAGGCATT|IGAAGATGA
NCLIV_058750|CGTCTCGCCATGTCGGACTC|TTGAATGA
NCLIV_058790|TCTTTAGAGATGAGATCTT|CIGGAAATGG
NCLIV_058800|CTTCACTATATGGAGAGTAT|ATATATGC
NCLIV_058820|TCCACTTTTATGGAAGCTTT|ICTGCATGC
NCLIV_058870|TATCTGGAAATGCGAGCTGA|GTCCATGT
NCLIV_058880|ACGCACCTGATGGAGCCTGG|IGCAGATGC
NCLIV_058930|TGGGGCGCTATGAGGAGCGC|ICTTAATGG
NCLIV_059070|GAAGTGGGCATGCGTCTCCG|ICGAGATGC
NCLIV_059080|CTTCTTTCCATGGCATGCAA|ICCGCATGC
NCLIV_059160|TCTCCGGCGATGCAAAAGAC|ITTGCATGC
NCLIV_059170|ACGACAGCCATGACCGCGT|TICCGCATGC
NCLIV_059220|TTGCACGGCATGTTTCTTCC|ITTATATGA
NCLIV_059270|GCTTGCGACATGAAGCTTGC|CCTGATGC
NCLIV_059290|CGCACTGGCATGTTGACGGA|ACACATGT
NCLIV_059320|GCGCGCGCCATGACGCTCCG|TTTTATGT
NCLIV_059570|TTTCCGTAAATGGCCCCGA|AAAAATGC
NCLIV_059580|GCTCCAGACATGCTCGCCCT|IGGGATGC
NCLIV_059610|CGTCACTCAATGGAGGCGT|TGCTCATGT
NCLIV_059640|ATGAGAGCAATGCAGCTGCG|IAAAGATGA
NCLIV_059660|AGAGGGGCAATGACGCCGAG|CAAATGA
NCLIV_059910|GGAACAGCCATGCCAAAGG|TCTCTATGA
NCLIV_059960|ATCGTCCCATGGGGAATCC|ICCGCATGT
NCLIV_059970|CCCCCAGGAATGACCGACG|AICGAAATGC
NCLIV_060030|GCGTCTGCGATGACGGCCA|GTAGATGC
NCLIV_060040|TGTGACGAGATGAGCCCGC|IAGACATGA
NCLIV_060050|TTCGTTTCGATGGCAACCGC|IGGAAATGA
NCLIV_060060|TCCACTCAAATGGTAACCGG|ITGGATGC
NCLIV_060110|TTCGTCTTGATGGACGGCGT|TTGGATGC
NCLIV_060190|GCAAGCGAAATGAAAGTTT|CITTGCATGC
NCLIV_060200|TGCTCAGAGATGAGGGAGAC|IGGAGATGA
NCLIV_060210|TTCTAGCTCATGGCCAGTCC|ITTTGATGC
NCLIV_060240|GTGGTTTTCTATGGTTGCCG|GIGGAAATGG
NCLIV_060250|GACGAGCTCATGGGAGAGG|CICCGATGG
CHROMOSOME XII
NCLIV_060290|AGTAGGGCAATGACGGCAGA|ICATGATGG
NCLIV_060330|ACACAGCAGATGGAGTGTGC|IGCGGATGA
NCLIV_060370|TGTGGACGTATGGGGAGCCC|IGTGCATGG
NCLIV_060450|TCCTTTGTCATGACAGCCGG|IGAGAATGG
NCLIV_060470|CACTGGGAAATGCCGGCCA|AICCGCATGC
NCLIV_060490|AGCATTTAAATGGCTCATCC|IGCACATGG
NCLIV_060530|CTGTCTCCATGGCATCCTG|ITCAAATGC
NCLIV_060540|TAGCCACAGATGGGGATCGA|ITTGAATGC
NCLIV_060740|NNNNNNNNNGCAAATACAC|IATCAATGT
NCLIV_060741|ATCTGCCAGATGGCTCTGC|GITTGAATGA
NCLIV_060750|GTCGCACCAATGGAGTCTCT|ITGTGATGC
NCLIV_060810|ATCGCCGAGATGCAGCCCCG|ICTAGATGG
NCLIV_060840|CGTCTCTCCATGGCGGCAG|AIGTCAATGC
NCLIV_060930|CAGCTGTTGATGGCGGAGAT|TGAGATGA
NCLIV_060940|ACAGCCGCCATGACCTCCTC|ICTAAATGA
NCLIV_061010|GTTTGCCAGATGGCGGACCC|ITAGAATGT
NCLIV_061060|TCAAGATAGATGGCGAGAGT|IGACGATGC
NCLIV_061080|CTCCTCTCCATGGCGTCTCG|ITTTGAATGC
NCLIV_061230|TCCCTTGACATGATCTCGAA|IACGTATGA
NCLIV_061310|AGTTATTTGATGGTGGCCGG|ITCCATGC
NCLIV_061400|GAAGGAGTCATGCCGGTGC|CITTCATGT
NCLIV_061540|TGCATTTCAATGGAGGTCAA|ICTTCATGC

NCLIV_061580|CCGCCCGTGATGTTTTGCTG|AGAGATGG
NCLIV_061650|CTTTCCCGCATGGCAGCGAA|GAACATGT
NCLIV_061760|GTCTCTGTCATGTGGCTCTT|AGATATGT
NCLIV_061900|CGCAACGAAATGACGAAATC|AAGGATGG
NCLIV_061910|GCGGAATCAATGGAAGCCCG|CCTAATGC
NCLIV_062000|GGCTGTCAAATGGATTCTAG|GTGGATGA
NCLIV_062020|CTTTTGCTCATGGCCACACG|TGTTATGC
NCLIV_062030|GTCTTTGCGCCGGGAAATTTT|IATGAATGA
NCLIV_062060|CTGGAGGGAATGAAACAGCG|IATGCATGT
NCLIV_062120|TCCTGCGAAATGAGAGACCA|IATCTATGC
NCLIV_062170|TCATCAGCGATGTATCTTCT|ITATTATGT
NCLIV_062190|GTCGCCTCAATGGCTGCAAC|ICGAGATGT
NCLIV_062250|CCGAAGGCAATGAAGGCGAG|IGGACATGC
NCLIV_062330|GGGGAGGAGATGCACAGGTT|IATGAATGG
NCLIV_062460|CTCATTGGTATGCTTTTTCT|IAGAGATGC
NCLIV_062470|CTGCGTTCGATGGATCCTCG|ITGGATGT
NCLIV_062490|CCAGGGCCAATGGGGCCTCA|IAAACATGG
NCLIV_062670|AGTACAGTTATGTCCGTTT|CIAGGAATGT
NCLIV_062680|AGTACAGTTATGTCTGTTT|CIAGGAATGT
NCLIV_062690|AGTACAGTTATGTCCGTTT|CIAGGAATGT
NCLIV_062730|GTCTCAGAGATGTCGATAGA|IGCGCATGC
NCLIV_062750|GCACAGTGGATGGCTGGACG|ICCGAATGC
NCLIV_062760|CTCCTAGCAATGAGGGTTT|CIGCTAATGT
NCLIV_062810|TACATACTCATGGCGGACAG|IGCGGATGT
NCLIV_062850|TTGGGACACATGGGAGACG|CIGCGCATGA
NCLIV_062930|CGACGTCCCATGGCGTCTG|CIGAATATGG
NCLIV_063000|AAGGAAGAAATGAACAGCGA|IGGGGATGC
NCLIV_063080|CCCGCAGCGATGCAAACCT|IATGCATGC
NCLIV_063140|TTCCGCGATATGCCAGCTT|TIGCAGATGA
NCLIV_063310|TTCTGCCAAATGGAGGGAGG|IATATATGG
NCLIV_063320|GTTTCAGCGATGGCACTTCG|IGAGGATGT
NCLIV_063380|CGGTGATACATGGCAGGCAC|ITTTGATGG
NCLIV_063400|GGGACAGAGATGAAAGCAGT|CACGATGC
NCLIV_063430|CGTGAAGGAATGCTCTGCCT|ITGGATGA
NCLIV_063440|CTTTCCGCCATGAAGTCACC|ICTCAATGA
NCLIV_063530|ATCGACGCAATGTTTGTGG|IACGGATGT
NCLIV_063630|CCCGGCGAAATGCCGGTTCG|AITGTGATGG
NCLIV_063650|CTCAGTCCAATGGCGTCTT|CITGGATGA
NCLIV_063720|GACGTTCCAATGGTGTGCGG|ICTCGATGC
NCLIV_063770|GCGTCCGCCATGCCAACTG|CIGCGGATGT
NCLIV_063780|TTTGTCTTGATGGGAGGAA|AACGTATGT
NCLIV_063810|CCTTTGCTGATGGAGCCGCC|ITTTATGA
NCLIV_063840|CGAGCCGCCATGCACACGCC|IATTTATGC
NCLIV_063940|CCGTACGCGATGTGGCAGAA|ITCCATGT
NCLIV_063970|CGCCAAGGGATGAAGCAGCC|IAAAGATGT
NCLIV_064050|CACGAAGCTATGAGCCTCAC|ICCGAATGA
NCLIV_064080|GTAATCTCTATGGCGTGCAC|IGTCGATGC
NCLIV_064090|TCCACTGCGATGTGGACATC|IATCGATGA
NCLIV_064130|GAGGTAGCCATGTTGGCGCT|IACGGATGT
NCLIV_064160|GGGCACCAAATGGATAGAGC|ITCAGATGC
NCLIV_064270|CCCTGTCTTATGGCCGCGCC|ICCGCATGC
NCLIV_064320|ATGGCCCAAATGGAGATTT|CTACAATGG
NCLIV_064410|GTCAGGGCAATGATCTTGCC|IGTGGATGG
NCLIV_064430|CGCCGCGCAATGTTTTTCAC|ICTTTATGC
NCLIV_064490|CGCTTTAGATGGCGCTGCA|IAGGCATGG
NCLIV_064520|CCACTTCTCATGGGGAAGTC|IGGCCATGA
NCLIV_064560|CCTTGCCAGTCTCTGGACGC|IACGATGC
NCLIV_064750|CGTGCCTTCATGGGCAACAC|ICGCCATGA
NCLIV_064840|AACGTGCAGATGGCAACCGA|ITCCGATGC
NCLIV_064850|CTCGACGCCATGTTTCCATT|ICGCAATGG

NCLIV_064910|GGACACGCCATGCACTCTGC|CGTGATGA
NCLIV_064920|TCTTCCTCGATGGAGGATCC|TCTGATGT
NCLIV_064940|TCCCCGGCAATGCAGCCAGG|GAGAATGG
NCLIV_064950|TTTTGTTCAGATGGCAATCGC|ATTGATGT
NCLIV_065030|TTTCCC GCCATGCCGTCTGAI|TGTCATGG
NCLIV_065040|TCCGACCAAATGGAGCTCAA|TTTGATGA
NCLIV_065050|TCCCCCGCCATGAGCACTGC|ACGCATGG
NCLIV_065060|TCCGCGGCGATGCAGGGACA|CAACATGG
NCLIV_065080|ACGCACGCCATGCCGGACGC|IAGGCATGG
NCLIV_065090|ACTCGCCAGATGGGGCTGTT|GTACATGA
NCLIV_065190|GCGAGAGAAATGATCTTTGG|IAGAGATGG
NCLIV_065260|GTCTGAGAAATGATTGTCA|IAGCGATGT
NCLIV_065330|CGTCCACCAATGGACGAAA|ITGCTATGT
NCLIV_065350|CATTTTGCAATGACTAGGCA|ICGTAATGG
NCLIV_065390|CTCACGGCAATGCCGAGCGC|ICCCGATGC
NCLIV_065420|AACTCCGACATGCCTCCTCA|IAGGAATGC
NCLIV_065430|TCCGGCGCCATGTCGTGGGC|TTGCATGG
NCLIV_065460|ATGCGCCCCATGGACTCCCT|ICGCGATGC
NCLIV_065480|TTTCTCTGGATGGAAGCAAC|TTGTATGT
NCLIV_065490|CTGTGGCAGATGGCGCTGCG|ICCCGATGC
NCLIV_065720|TGGGAGGCAATGAGGGACGG|ICTGGATGA
NCLIV_065880|CCGCCATCGATGGAATTTGT|GTTGATGG
NCLIV_066000|CCGTGATCCATGGCAACTGG|ITGCAATGC
NCLIV_066165|TTTCAAGAAATGTTTCTGTG|IATCAATGG
NCLIV_066180|CGACGCCGAATGGACAGGGG|ICCGCATGT
NCLIV_066320|GCCGCCGCCATGCGCTTTC|AICGCAATGT
NCLIV_066330|ACCTCTCTGATGGAGGACAC|ITCTCATGT
NCLIV_066480|AAGCGCTACATGGTTGCCCT|AATCATGA
NCLIV_066560|CCGTTTCCAATGGATTTCTT|IGTGCATGC
NCLIV_066580|TGCCGTCAGAAGCGTGAATA|ICAAGATGC
NCLIV_066610|CGGTCCGAGATGAAGGGCCA|IGGCGATGC
NCLIV_066620|CCTATCCACATGGAGAAGCA|ITCTCATGC
NCLIV_066650|TTCGACCTCATGGATCTCCCI|IAGGCATGT
NCLIV_066690|AAAGACGAAATGTATTCGGA|IGAAAATGG
NCLIV_066710|TGTGTGTCGTCATGCCGCGATC|ITCTTATGC
NCLIV_066730|TCTTCCGCAATGAAGCGACT|ICGCAATGC
NCLIV_066750|TTCGTTCGAAATGAAGCTGTG|IACCTATGC
NCLIV_066810|GTCATCCCCATGGCAGACGG|ICGGAATGG
NCLIV_066850|TTCACGGAAATGAAGTCAA|AICAGCATGA
NCLIV_066860|TCATCAGAGATGTGTCAGTT|ICCTCATGC
NCLIV_067020|GTACTGCCCATGGCTTCAGG|ITCCAATGG
NCLIV_067050|CTATGCTCCATGGGGAAGCC|ICTCTATGC
NCLIV_067120|GTTTTTGCCAAATGGCGCCTG|CIGACAATGT
NCLIV_067170|CTTGGGCAGCCTATCCGTGG|IGGTAATGG
NCLIV_067220|CCCCTGAAATGAATCGCGA|ICGCCATGG
NCLIV_067260|TTCTCGCCTATGGCTAGCTT|IGCAGATGT
NCLIV_067310|GCTTAGCTGATGGCAATGAA|IACAGATGA
NCLIV_067340|GAAGCGTCAATGGATCCTCT|IGTCTATGT
NCLIV_067380|TTAGTTCAAATGGCTAGTAA|ITGGAATGG
NCLIV_067490|TATTTCTGTATGGCAATTC|AICAAAATGC
NCLIV_067520|TCCTTCCTCATGGGCTTCTT|IGGGCATGC
NCLIV_067780|CCCGGGCGAATGGAGATCCC|IGCGGATGA
NCLIV_068090|CGTCCAGAGATGAGGCTTGC|ITGCCATGT
NCLIV_068110|TGTGCGGGAATGCGCACCAG|ICGAGATGA
NCLIV_068120|GGAGCCGAGATGAGCGATCG|ICGTCATGG
NCLIV_068150|GAATCTCCATGGCGCCTGT|ICGGTATGT
NCLIV_068170|TTACTCTCCATGGAAATCTA|IGCCGATGC
NCLIV_068190|CTCGCCGCGATGCCCAACCA|IGCTGATGC
NCLIV_068210|TTCGTCTCGATGGCACTCTA|IGCCGATGA
NCLIV_068220|GCCTCCGAAATGTTTCCAGT|IGCCTATGC

NCLIV_068270|AGCGGCTCGATGGCCCAGCGITCGCATGC
 NCLIV_068320|CACGCCGACATGAAGGCGTTIGATGATGC
 NCLIV_068390|CACTCCGACATGCGTTGCGA|CATGATGG
 NCLIV_068410|CGCGAGGGAATGAGAGGTGA|GAAGATGA
 NCLIV_068420|ACACGGGGAATGTTTCATCAC|ATCCATGC
 NCLIV_068470|GGACAGGGAATGCTGTCTCT|ICTGCATGT
 NCLIV_068490|CTTTAGGAAATGACGGCCAG|GTAAATGT
 NCLIV_068540|CCTTCCCCCATGGCGAACAG|TTGCATGC
 NCLIV_068560|GTCTGCCTCATGGCTACGGG|CGGAATGC

3. PART II – The analysis results for each questionable gene

*** **CHROMOSOME Ia**

#####

ID=NCLIV_000030 - 1 CGTCAGCGAATGGGATTCGT
 34077,39761,5685

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_000190 + 1 CGAGCCCAGATGGTCTCGAG
 187823,191812,3990

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_000200 - 1 TTCTGCGGGATGTTCTGCTT
 193889,198745,4857

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_000210 + 1 ACCAGTGCGATGTCGCACCC

204228,207575,3348

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_000230 - 1 TCAAATGGAATGAGTGGAAT

220540,228657,8118

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_000280 - 4 GTCTCCGCAATGTCCGACGC

260963,261117,155,END:Starts:260924-260865-260916-

261765,261899,135,EXACT,AG-GT

262324,262555,232,EXACT,AG-GT

263275,263403,129,START:Ends:264106-264137-263390-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_000290 + 3 AGGAATCGCATGGCACCGGC

265611,265640,30,OVER:Starts:264808-264819-264809-

266289,266867,579,EXACT,AG-GT

267310,267942,633,START:Ends:268083-270428-268700-

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_000290 + 3 AGGAATCGCATGGCACCGGC Ia G..ATGG

264819,265276,458,5' UTR

265277,265640,364,GT,OVER:Starts:264808-264819-264809-,Old start=265611

266289,266867,579,INTERNAL,EXACT,AG-GT

267310,267905,596,AG,START:Ends:268083-270428-268700-,Old end=267942

267906,270428,2523,3' UTR

#####

ID=NCLIV_000320 - 1 GAAGGGGAAATGCGTCCTCT

278802,280577,1776

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_000330 + 4 CTCGCCGCGATGCCTCGCGA

282208,283142,935

283690,284231,542

285317,285518,202

285885,286323,439

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_000420 + 12 GCCGCCGCAATGACGAGCTC

319860,319984,125,END:Starts:318937-318864-

320471,320615,145,EXACT,AG

321084,321257,174,EXACT,GT

321900,322124,225,EXACT,AG-GT

322675,322919,245,EXACT,AG-GT

323279,323758,480,EXACT,AG-GT

324295,324417,123,EXACT,AG

325996,326104,109,EXACT,AG-GT

326786,326884,99,EXACT,AG-GT

327395,327522,128,EXACT,AG-GT

327910,328081,172,EXACT,AG-GT

328785,329969,1185,START:Ends:330294-329965-

>> RNA-Seq evidence = 12/12 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_000450 + 1 AGTGACTGGATGGCGGATCT

347404,348123,720

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_000490 - 9 GGTCCTCCCATGGGGATGCC

381508,383368,1861,END:Starts:380792-380793-381197-

383653,383723,71,END: start -20 AG-GT (ref:AC-GT)<< Possible error

383815,383867,53

384380,384486,107,EXACT,AG-GT

384786,384840,55,EXACT,AG-GT

385265,385340,76,EXACT,AG-GT

385728,385877,150,EXACT,AG-GT

386190,386237,48,EXACT,AG-GT

386619,386786,168,START:Ends:388252-388383-

>> RNA-Seq evidence = 8/9 (88.9%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_000490 - 9 GGTCCTCCCATGGGGATGCC Ia A..ATG

386859,388252,1394,5' UTR

386619,386858,240,GT,START:Ends:388252-388383-,Old end=386786

386190,386237,48,INTERNAL,EXACT,AG-GT
 385728,385877,150,INTERNAL,EXACT,AG-GT
 385265,385340,76,INTERNAL,EXACT,AG-GT
 384786,384840,55,INTERNAL,EXACT,AG-GT
 384380,384486,107,INTERNAL,EXACT,AG-GT
 383815,383867,53,INTERNAL,
 383653,383723,71,INTERNAL,END: start -20 AG-GT (ref:AC-GT)<< Possible error
 381508,383368,1861,AG,END:Starts:380792-380793-381197-,Old start=381508
 380792,381509,716,3' UTR

#####

ID=NCLIV_000630 - 1 GGATCCGCGATGACGCTTCG
 498222,499676,1455

>> RNA-Seq evidence = NONE

>> Homology evidence = 237841750 0.0 49.2 87.67 1677 Toxoplasma gondii ME49
 hypothetical protein

#####

ID=NCLIV_000640 + 6 GTGGTCCGCATGCTTGTGGC
 502748,503161,414,END:Starts:502054-502106-502124-
 503265,503537,273,EXACT,AG-GT
 503663,503779,117,EXACT,AG-GT
 503955,504041,87,EXACT,AG-GT
 504149,504246,98,EXACT,AG-GT
 504388,504451,64,START:Ends:504689-504488-504738-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_000690 + 11 CTTCATCCGATGGAGTCGAT
 554096,554290,195,END:EXACT

554715,554827,113,EXACT,ATG:AG-GT
 555434,555668,235,EXACT,AG-GT
 555934,555988,55,EXACT,AG-GT
 556601,556932,332,EXACT,AG-GT
 558464,558572,109,END: start -67 AG-GT (ref:AG-GT)<< Possible error
 558797,558853,57,EXACT,AG-GT
 559312,559496,185,START: end -33 AG-GT (ref:AG-GT)<< Possible error
 559883,559996,114,EXACT,AG-GT
 560750,560822,73,EXACT,AG-GT
 561389,561612,224,OVER:Starts:560242-561221-

>> RNA-Seq evidence = 10/11 (90.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_000710 + 5 GCTTAGGATATGTATTCGTG

580481,580595,115,OVER:Starts:575232-580069-578628-
 581603,581769,167,EXACT,AG-GT
 582340,582428,89,START: end 832 ATG:AG-GT
 583090,583260,171,END: start -750 ATG:AG-GT
 583632,583755,124,START:Ends:584194-584378-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_000711 + 5 TTCATCTAGGCACCCTTCGC

584512,584657,146
 586153,586199,47
 586732,586835,104
 587460,590499,3040
 591873,591943,71

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_000770 + 5 TTTGGCTTTATGGACAACTG

645715,645725,11

646239,646308,70

646740,646824,85

647428,647504,77

648206,648361,156

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_000800 - 4 TTCTCAGCTATGAAGCTTCA

669971,670074,104,END:Starts:668020-668651-669838-

670403,670554,152,START: end 106 AG-GT (ref:AC-GT)<< Possible error

671593,672245,653,EXACT,AG-GT

672564,673175,612,START:Ends:673326-673337-673339-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_000810 - 7 GAAAAAGGTATGAATTTCCA

677831,678141,311

678528,678989,462

679411,680313,903

681145,681211,67

681751,681833,83

682543,683139,597

683450,683510,61

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_000820 + 5 TGCTGGGTGATGTCCTATCG

689828,690127,300

690688,690777,90

691180,691611,432

692043,692205,163

692817,693142,326

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_000850 + 14 GAAGTCGCGATGAGAGTTTT

703986,704563,578

705013,705500,488

706047,706201,155

706730,706793,64

707147,707220,74

707709,707810,102

708715,708810,96

709272,709411,140

709614,709761,148

710006,710160,155

710960,711013,54

711167,711392,226

711467,711589,123

711828,711932,105

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_001090 - 7 TCGCCCCTGATGGCGCGCTG

926052,926333,282,END:Starts:925084-925137-925141-

926710,926934,225,EXACT,AG-GT

927256,927423,168,START: end 146 AG-GT

927790,927993,204,EXACT,AG-GT

928255,928975,721,EXACT,AG-GT

929945,930063,119,EXACT,AG-GT

930277,931221,945,START:Ends:934102-931942-931933-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_001150 - 3 CGGCGTGTGATGCCCCGGTA

999021,999143,123,END:Starts:998845-998786-

999668,999820,153,EXACT,AG-GT

1000147,1001541,1395,START:EXACT

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_001150 - 3 CGGCGTGTGATGCCCCGGTA Ia [CT]..ATG[ACT]

1002361,1002541,181,5' UTR

1000147,1002360,2214,GT,START:EXACT,Old end=1001541 (-1000)

999668,999820,153,INTERNAL,EXACT,AG-GT

999021,999143,123,AG,END:Starts:998845-998786-,Old start=999021

998786,999022,235,3' UTR

Leaky:ID=NCLIV_001150 - 3 CGGCGTGTGATGCCCCGGTA Ia
[CT]..ATG[ACT]

1002340,1002541,202,5' UTR

1000147,1002339,2193,GT,START:EXACT,Old end=1001541 (-1000)

999668,999820,153,INTERNAL,EXACT,AG-GT

999021,999143,123,AG,END:Starts:998845-998786-,Old start=999021

998786,999022,235,3' UTR

#####

ID=NCLIV_001160 + 7 GAACCAGGGATGCCTGCAGA

1019487,1019579,93

1020113,1020236,124

1021128,1021442,315

1021979,1022223,245

1022579,1023577,999

1023810,1023960,151

1024672,1024718,47

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_001190 - 2 CCCTTCGAAATGTCTGCATC

1057686,1059773,2088

1060706,1063537,2832

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_001200 + 8 GGCGTCCAGATGGCTGCAGT

1066010,1066144,135

1067002,1067149,148,END: start 83 AG-GT (ref:AG-GT)<< Possible error

1067282,1067373,92,EXACT,AG-GT
 1068051,1068106,56,EXACT,AG-GT
 1068627,1068850,224,EXACT,AG-GT
 1069356,1069454,99,EXACT,AG-GT
 1070146,1070171,26,EXACT,AG-GT
 1070662,1070688,27,START:Ends:1071340-1071190-1071241-

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_001210 - 10 GTTCCGCTATGATTCTTGA

1072984,1073074,91,END:Starts:1072567-1072600-1072645-
 1073559,1073680,122,EXACT,AG-GT
 1073893,1073926,34,EXACT,AG-GT
 1074629,1074650,22,EXACT,GT
 1075141,1075270,130,EXACT,AG-GT
 1075760,1075824,65,EXACT,AG-GT
 1076346,1076444,99,EXACT,AG-GT
 1076858,1076936,79,EXACT,AG-GT
 1077522,1077585,64,EXACT,AG-GT
 1078006,1078166,161,START:Ends:1079704-1079266-

>> RNA-Seq evidence = 10/10 (100.0%)

>> Homology evidence = 237841972 0.0 53.2 82.05 737 Toxoplasma gondii ME49
 hypothetical protein

#####

ID=NCLIV_001330 + 1 GGTCAAGCAATGAGGTGCAC

1211547,1212164,618,OVER:Ends:1212292-1212282-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_001400 - 16 CCTATCGCCATGAGGGCGTT

1292581,1292796,216,END:Starts:1292086-1291971-1292053-

1293253,1293514,262,EXACT,AG-GT

1293889,1294436,548,EXACT,AG-GT

1294774,1295349,576,START: end 867 GT

1295765,1295976,212,OVER: start -991 and end 240 GT

1296442,1296594,153,END: start -3 AG

1296901,1297407,507,START: end 2 GT

1297815,1298198,384,EXACT,GT

1298542,1298844,303

1299326,1299474,149

1299687,1299918,232

1300249,1300566,318

1300806,1300877,72

1301142,1301228,87

1301611,1301637,27

1301886,1302111,226

>> RNA-Seq evidence = 7/16 (43.8%)

>> Homology evidence = NONE

#####

ID=NCLIV_001460 - 1 ATGCGCGGGATGTTCCCTAGG

1368923,1369915,993

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_001650 - 4 CAGCTTCTCATGGAGGGTGC

1532777,1533076,300,END:Starts:1532390-1532003-1532218-

1533726,1533900,175,EXACT,AG-GT

1534391,1534520,130,START: end 195 TAGTGAITAA:AG-GT

1535380,1535554,175,START:Ends:1536036-1536070-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_001660 - 1 GTTCCTGCCATGTCTTCAAG

1540390,1541394,1005

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_001740 + 5 GTGCGGTCAATGGGCCGCCA

1618431,1618485,55

1618908,1619010,103

1619424,1619468,45

1619687,1620323,637

1620670,1626978,6309

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_001760 - 5 ATAAAGGAGATGAGGGACAT

1637509,1637699,191

1637813,1638270,458,END: start -300 GT

1638834,1639115,282

1639522,1639719,198

1642722,1642903,182

>> RNA-Seq evidence = 1/5 (20.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_001770 - 12 CTTCGCCCATGGCGCCGCA

1646176,1646253,78,END:Starts:1645417-1645239-1645390-

1646721,1646774,54,EXACT,AG-GT

1647277,1647349,73,START: end -17 GT

1647931,1648171,241,END: start 5 AG (ref:AC-GT)<< Possible error

1648803,1649244,442,EXACT,GT

1650215,1650484,270

1650761,1650895,135,END: start 2 AG (ref:AC-GT)<< Possible error

1651239,1651340,102,EXACT,AG-GT

1651729,1652235,507,EXACT,AG-GT

1652757,1652906,150,EXACT,AG-GT

1653456,1653513,58,EXACT,AG-GT

1653996,1654294,299,START:Ends:1654713-1654652-

>> RNA-Seq evidence = 11/12 (91.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_001790 + 13 GCTGAACGGATGGCCCATCG

1661305,1661343,39,END:Starts:1660467-1660469-1660471-

1661648,1661757,110,EXACT,AG-GT

1662049,1662189,141,START: end 124 AG

1662884,1662974,91,EXACT,GT

1663443,1663712,270,EXACT,AG-GT

1664249,1664337,89,START: end 3 AG

1664864,1664951,88,START: end -5 AG

1665355,1665449,95,END: start -179 GT

1665822,1665981,160,EXACT,AG-GT

1666499,1666579,81,EXACT,AG-GT

1666926,1666986,61,EXACT,AG-GT

1667286,1667325,40,EXACT,AG-GT

1667728,1667926,199,START:Ends:1668384-1668829-

>> RNA-Seq evidence = 13/13 (100.0%)

>> Homology evidence = 237841926 0.0 77.7 80.72 987 Toxoplasma gondii ME49
general transcription factor IIH polypeptide 2

#####

ID=NCLIV_001840 + 2 TCGGTCGCCATGATTCCTT

1695165,1697803,2639

1698507,1698975,469

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_001850 - 3 GAGACGCGGATGGAGCGCGG

1699826,1700089,264,END:Starts:1682661-1698632-1698436-

1700422,1701234,813,EXACT,AG-GT

1701701,1702825,1125,START:Ends:1701737-1702952-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_001880 - 5 AGGTTCCGCATGACGCAACG

1728841,1728934,94

1729288,1729394,107

1730216,1730257,42,EXACT,AG-GT

1730837,1730943,107,EXACT,AG-GT

1731260,1731527,268,START:Ends:1732143-1732701-1732162-

>> RNA-Seq evidence = 3/5 (60.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_001920 - 13 GTGCGCCCCATGGACCCCGT

1758174,1758297,124,END:Starts:1757540-1752842-

1759097,1759378,282,EXACT,AG-GT

1759892,1760041,150,EXACT,AG-GT

1760288,1761067,780,EXACT,AG-GT

1761307,1761556,250,START: end 45 AG-GT

1762024,1762295,272,START: end 4 GT

1762756,1763544,789,END: start -40 AG (ref:AC-GT)<< Possible error

1764202,1764384,183,EXACT,AG-GT

1764790,1764927,138,EXACT,AG-GT

1765209,1765306,98,EXACT,AG-GT

1765586,1765798,213,START: end -21 AG-GT

1765909,1766641,733,END: start 2 AG (ref:AC-GT)<< Possible error

1767199,1767485,287,START:Ends:1767460-1767674-1767617-

>> RNA-Seq evidence = 13/13 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_002000 + 1 GTCGTTGTCATGAGCTGTTC

1847210,1849291,2082,WITHIN:EXACT

>> RNA-Seq evidence = 1/1 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_002030 - 5 GGACACCACATGGTGAGTCA

1869594,1870495,902

1870905,1871264,360

1871678,1872205,528

1872558,1872938,381

1873254,1873503,250

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_002040 - 1 TATAGCCAGATGGTGAGCCG

1874026,1874433,408

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_002070 - 11 TTTTCCGCAATGCACGCTTC

1889553,1889600,48,END:Starts:1888733-1889205-1887634-

1889957,1890014,58,EXACT,AG-GT

1890684,1890831,148,EXACT,AG-GT

1891373,1891441,69,EXACT,AG-GT

1891893,1892002,110,EXACT,AG-GT

1892323,1892395,73,EXACT,AG-GT

1892853,1897278,4426,EXACT,AG-GT

1897726,1899678,1953,EXACT,AG-GT

1900093,1900179,87,EXACT,AG-GT

1900474,1901222,749,EXACT,AG-GT

1901892,1903380,1489,OVER:Ends:1904742-1904754-

>> RNA-Seq evidence = 10/11 (90.9%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_002070 - 11 TTTTCCGCAATGCACGCTTC Ia [CT]..ATG[ACT]

1904200,1904742,543,5' UTR

1901892,1904199,2308,GT,OVER:Ends:1904742-1904754-,Old end=1903380

1900474,1901222,749,INTERNAL,EXACT,AG-GT

1900093,1900179,87,INTERNAL,EXACT,AG-GT

1897726,1899678,1953,INTERNAL,EXACT,AG-GT

1892853,1897278,4426,INTERNAL,EXACT,AG-GT

1892323,1892395,73,INTERNAL,EXACT,AG-GT

1891893,1892002,110,INTERNAL,EXACT,AG-GT

1891373,1891441,69,INTERNAL,EXACT,AG-GT

1890684,1890831,148,INTERNAL,EXACT,AG-GT

1889957,1890014,58,INTERNAL,EXACT,AG-GT

1889553,1889600,48,AG,END:Starts:1888733-1889205-1887634-,Old start=1889553

1887634,1889554,1919,3' UTR

Leaky:ID=NCLIV_002070 - 11 TTTTCCGCAATGCACGCTTC Ia
[CT]..ATG[ACT]

1903606,1904742,1137,5' UTR

1901892,1903605,1714,GT,OVER:Ends:1904742-1904754-,Old end=1903380

1900474,1901222,749,INTERNAL,EXACT,AG-GT

1900093,1900179,87,INTERNAL,EXACT,AG-GT

1897726,1899678,1953,INTERNAL,EXACT,AG-GT

1892853,1897278,4426,INTERNAL,EXACT,AG-GT

1892323,1892395,73,INTERNAL,EXACT,AG-GT

1891893,1892002,110,INTERNAL,EXACT,AG-GT

1891373,1891441,69,INTERNAL,EXACT,AG-GT

1890684,1890831,148,INTERNAL,EXACT,AG-GT

1889957,1890014,58,INTERNAL,EXACT,AG-GT

1889553,1889600,48,AG,END:Starts:1888733-1889205-1887634-,Old start=1889553

1887634,1889554,1919,3' UTR

#####

ID=NCLIV_002110 - 6 ATCTCCCCCATGGCGACAGG

1948639,1948716,78

1948932,1949039,108

1949216,1949520,305

1950065,1950288,224

1951038,1951183,146

1952304,1952759,456

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_002115 + 7 GCAGGCGAGATGCGAGAGGA

1956334,1956777,444,END:Starts:1955175-1955003-1956301-

1957510,1957743,234

1958130,1958194,65,START: end -20 AG-GT (ref:AG-GT)<< Possible error

1958403,1958468,66,OVER: start -25 and end 14 AG-GT

1958762,1959070,309,START: end 107 AG

1959791,1959966,176

1960722,1960882,161

>> RNA-Seq evidence = 3/7 (42.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_002180 + 1 ATTGCAGAAATGATAAAACG

2049336,2051819,2484

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_002350 - 5 GCGAGAGGGATGAAGAGCAC
 2178407,2178436,30
 2178702,2178863,162
 2179332,2181029,1698
 2181402,2181613,212
 2181928,2183080,1153

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_002370 - 11 AGTCGGCAAATGGTGTTCAC
 2189505,2189764,260,OVER:Starts:2189743-2188940-
 2190696,2191813,1118,EXACT,GT
 2192451,2192545,95
 2193097,2193234,138,END: start -31 AG
 2193618,2193907,290,EXACT,AG-GT
 2194503,2194617,115,EXACT,AG
 2194923,2194982,60,START: end 78 GT
 2195573,2195902,330,END: start 185 Info:AG-GT-AG-GC-
 2196203,2198629,2427,EXACT,GT
 2199078,2199470,393
 2200110,2200664,555

>> RNA-Seq evidence = 7/11 (63.6%)

>> Homology evidence = NONE

*** **CHROMOSOME Ib**

#####

ID=NCLIV_002480 - 9 TCCTTGGCGATGAAGGTCGT
44152,44250,99,END:Starts:44093-42892-
44528,44662,135,EXACT,AG-GT
45089,45138,50,START: end 7 AG-GT
45416,45547,132,EXACT,AG-GC
46280,46519,240,END: start 16 AG-GT
47247,47577,331,EXACT,AG-GT
47917,48087,171,EXACT,AG-GT
48730,49122,393,START: end 1657 GT
49687,49719,33,OVER:Ends:49564-50779-

>> RNA-Seq evidence = 8/9 (88.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_002580 + 1 GCGAGTGCCATGATAGCGGC
160867,162666,1800

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_002790 + 49 CTCTTTCTTATGGAGGGCCG
330809,332186,1378
333236,333514,279
334130,334581,452
335077,335460,384
336046,336357,312
336945,337133,189
337522,337656,135
338244,338457,214
339165,339236,72

339480,339603,124
340488,340642,155
341036,341283,248
341733,341861,129
342565,342700,136
343085,343232,148
343492,343697,206
345208,345466,259
345764,345890,127
346331,346385,55
346909,347123,215
347502,347580,79
349790,349989,200
350799,350854,56
351260,351427,168
352080,352237,158
353119,353471,353
353634,353867,234
354291,354436,146
354679,354746,68
355226,355314,89
355965,356118,154
356810,356919,110
357371,357422,52
357708,357867,160
358165,358370,206
358858,358966,109
359946,360163,218
360782,360997,216
362282,362452,171

362854,362976,123

363545,363751,207

364355,364458,104

365098,365223,126

365441,365478,38

365941,366070,130

366925,367231,307

367623,367891,269

369018,369320,303

369924,370100,177

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_002810 + 4 GAGGAGGAGATGAAGCGAA

394028,394408,381,END:EXACT

394975,395219,245,START: end -171 AG-GT (ref:AG-GT)<< Possible error

395623,395791,169,END: start 47 AG-GT (ref:AG-GT)<< Possible error

396285,397232,948,OVER:EXACT

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_002840 + 5 AGTCGGGAGATGTGTGAAGG

418534,418797,264

419377,420999,1623,END: start -593 GT (ref:AG-GT)<< Possible error

421659,421730,72,EXACT,AG-GT

422058,422273,216,EXACT,AG-GT

423038,423163,126,START:Ends:424058-424068-424241-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_002860 - 7 TTGAAGCTGATGGCGAGGCG

431316,431407,92,END:Starts:431114-431140-

431707,431929,223,EXACT,AG-GT

432255,432356,102,EXACT,AG-GT

432658,432787,130,END: start 17 AG-GT

433452,433565,114,OVER: start -31 and end 162 GT

433850,433980,131,WITHIN: start 19 and end -47 AG-GT

434567,435346,780,START:Ends:435843-435948-

>> RNA-Seq evidence = 5/7 (71.4%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_002860 - 7 TTGAAGCTGATGGCGAGGCG Ib G..ATGG

435383,435843,461,5' UTR

434567,435382,816,GT,START:Ends:435843-435948-,Old end=435346

433850,433980,131,INTERNAL,WITHIN: start 19 and end -47 AG-GT

433452,433565,114,INTERNAL,OVER: start -31 and end 162 GT

432658,432787,130,INTERNAL,END: start 17 AG-GT

432255,432356,102,INTERNAL,EXACT,AG-GT

431707,431929,223,INTERNAL,EXACT,AG-GT

431316,431407,92,AG,END:Starts:431114-431140-,Old start=431316

431114,431317,202,3' UTR

#####

ID=NCLIV_002930 + 1 GTTCTTGCCATGACGGGCGC

493480,500769,7290

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_003010 + 2 GTCGGGGAAATGCAACCTTC

574456,575055,600

575505,577067,1563

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_003020 + 8 AGACATCCTATGGTTGGTCA

580189,581823,1635,END:Starts:579721-579653-

582122,582253,132,EXACT,ATG:AG-GT

582385,582929,545,EXACT,AG-GT

583317,583635,319,EXACT,AG-GT

584297,584830,534,EXACT,AG-GT

585355,585699,345,EXACT,AG-GT

586280,586366,87,EXACT,AG-GT

586786,586953,168,START:EXACT

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_003150 + 1 ATCGTTGAGATGTCAGAGGC

697882,700053,2172,OVER:Ends:700896-700993-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_003170 + 9 TTTTCCCAATGGCTTTACT

716399,717190,792,END:Starts:715854-715859-716528-

717575,717725,151,EXACT,AG-GT
 718349,718490,142,EXACT,AG-GT
 719118,720632,1515,EXACT,AG-GT
 721235,721336,102,EXACT,ATG:AG-GT
 721840,721994,155,EXACT,AG-GT
 722502,722567,66,EXACT,AG-GT
 722963,723108,146,EXACT,AG-GT
 723699,723899,201,START:Ends:725240-725759-724114-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_003170 + 9 TTTTCCCAATGGCTTTACT Ib [CT]..ATG[ACT]

716528,716596,69,5' UTR

716597,717190,594,GT,END:Starts:715854-715859-716528-,Old start=716399

717575,717725,151,INTERNAL,EXACT,AG-GT

718349,718490,142,INTERNAL,EXACT,AG-GT

719118,720632,1515,INTERNAL,EXACT,AG-GT

721235,721336,102,INTERNAL,EXACT,ATG:AG-GT

721840,721994,155,INTERNAL,EXACT,AG-GT

722502,722567,66,INTERNAL,EXACT,AG-GT

722963,723108,146,INTERNAL,EXACT,AG-GT

723699,723899,201,AG,START:Ends:725240-725759-724114-,Old end=723899

723900,725759,1860,3' UTR

Leaky:ID=NCLIV_003170 + 9 TTTTCCCAATGGCTTTACT Ib
 [CT]..ATG[ACT]

716528,717118,591,5' UTR

717119,717190,72,GT,END:Starts:715854-715859-716528-,Old start=716399

717575,717725,151,INTERNAL,EXACT,AG-GT

718349,718490,142,INTERNAL,EXACT,AG-GT

719118,720632,1515,INTERNAL,EXACT,AG-GT

721235,721336,102,INTERNAL,EXACT,ATG:AG-GT

721840,721994,155,INTERNAL,EXACT,AG-GT

722502,722567,66,INTERNAL,EXACT,AG-GT

722963,723108,146,INTERNAL,EXACT,AG-GT

723699,723899,201,AG,START:Ends:725240-725759-724114-,Old end=723899

723900,725759,1860,3' UTR

#####

ID=NCLIV_003180 + 1 GAACGCGTCATGAACTCCCA

726838,727782,945,OVER:Starts:725838-725467-724672-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_003340 - 1 AACGGCGTTATGTATCGGAG

836875,838287,1413,OVER:Starts:836138-835758-836145-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_003350 - 16 TCGAGCGAAATGCACGGCTC

841122,841869,748,END:Starts:836138-835758-836145-

842339,842478,140,EXACT,AG-GT

842677,842773,97,START: end 101 GT

843129,843287,159

843776,844247,472

844815,845440,626

845902,845966,65

846300,846390,91

846779,846899,121

847218,847278,61

848051,848152,102

848415,848542,128

849258,850011,754

850609,851001,393

851840,853130,1291

853697,853854,158

>> RNA-Seq evidence = 3/16 (18.8%)

>> Homology evidence = 237840712 0.0 172.8 76.53 966 Toxoplasma gondii ME49
ATP-dependent DNA helicase

#####

ID=NCLIV_003410 - 9 GTGTTCTGTATGGCTGCCTG

890642,890833,192

891271,891496,226,END: start 9 AG (ref:AC-GT)<< Possible error

891838,892160,323,EXACT,AG-GT

892397,900268,7872,START: end 15074 GT

900518,913872,13355,OVER: start -8121 and end 1470 GT

914278,925262,10985

925617,925893,277

926358,928952,2595,START: end -1367 GT

929926,929974,49

>> RNA-Seq evidence = 4/9 (44.4%)

>> Homology evidence = 237840724 0.0 106.6 73.57 846 Toxoplasma gondii ME49
HECT-domain (ubiquitin-transferase) containing protein

#####

ID=NCLIV_003460 - 3 CTCAGGGCATGCATTCTTT

963033,963235,203,END:Starts:961897-961864-961772-

963482,963701,220,EXACT,AG-GT

964116,966446,2331,START:Ends:967807-965308-967986-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = 237840734 0.0 93.2 82.49 907 Toxoplasma gondii ME49 protein kinase

>> Alternative start codon

ID=NCLIV_003460 - 3 CTTCAGGGCATGCATTCTTT Ib A..ATG

964947,965308,362,5' UTR

964116,964946,831,GT,START:Ends:967807-965308-967986-,Old end=966446

963482,963701,220,INTERNAL,EXACT,AG-GT

963033,963235,203,AG,END:Starts:961897-961864-961772-,Old start=963033

961772,963034,1261,3' UTR

#####

ID=NCLIV_003580 - 1 ACTGTGGGGATGTACGAAGC

1040346,1041218,873

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_003600 - 5 CCCGCAGCAATGCCCGGGT

1050865,1051691,827,OVER:Starts:1048002-

1052375,1053026,652,END: start -4373 Code:INTERNAL-

1053513,1053786,274,EXACT,AG-GT

1054429,1054686,258,EXACT,AG-GT

1055095,1055585,491,START:Ends:1056028-1056187-1056076-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_003620 + 8 TTCGCATCCATGGACCTGAC

1070453,1071122,670,END:EXACT

1071715,1071839,125,EXACT,AG-GT
 1072073,1072440,368,EXACT,AG-GT
 1072874,1073463,590,EXACT,AG-GT
 1073978,1074080,103,START: end 5 AG (ref:AG-GT)<< Possible error
 1074309,1074431,123,END: start -103 GT
 1076529,1076807,279,END: start -1476 AG-GT (ref:AG-GT)<< Possible error
 1077332,1079369,2038,START:Ends:1082508-1079338-1079821-

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_003770 - 4 GGTACTTCAATGGAGGCGGA

1190567,1190938,372

1191582,1191758,177

1192530,1192840,311

1193086,1193647,562

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_003850 + 8 TCCGCTGCTATGCGCGACTC

1261440,1262328,889

1263099,1263524,426,END: start -27 GT

1263787,1264424,638,EXACT,AG

1264658,1264745,88

1265000,1265053,54

1265579,1265641,63

1265910,1266392,483

1267242,1267282,41

>> RNA-Seq evidence = 2/8 (25.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_003860 - 1 AATTCTGGAATGCCCTTCGC
1270501,1272027,1527

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_003980 - 5 CTGGAAGCCATGCAACGACG
1346517,1346643,127,END:Starts:1344949-1344981-1344985-
1346767,1347018,252,EXACT,AG-GT
1347123,1347259,137,EXACT,AG-GT
1347383,1347462,80,EXACT,AG-GT
1347556,1347775,220,START:Ends:1348296-1347837-1348309-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = 237840844 0.0 47.0 82.32 688 Toxoplasma gondii ME49 50S
ribosomal protein L28, putative, mRNA

#####

ID=NCLIV_004090 - 4 CGAGGCGGCATGTCAGACAC
1420331,1420809,479,OVER:EXACT
1421561,1421792,232,END: start -3365 AG-GT
1422033,1422414,382,EXACT,AG-GT
1422968,1423011,44,START:EXACT

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_004280 - 12 CCGCGCGACATGACTGCGCT

1583632,1583743,112,END:Starts:1580613-1582836-1580993-
 1584199,1584358,160,EXACT,AG-GT
 1585316,1585491,176,EXACT,AG-GT
 1586170,1586343,174,EXACT,AG-GT
 1586991,1587213,223,EXACT,AG-GT
 1587531,1587687,157,EXACT,AG-GT
 1588116,1588359,244,EXACT,AG-GT
 1588744,1588838,95,START: end 125 GT
 1589129,1589284,156
 1589769,1589897,129
 1590575,1590693,119,END: start 7 AG
 1591407,1591950,544,START:Ends:1593861-1593859-

>> RNA-Seq evidence = 10/12 (83.3%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_004280 - 12 CCGCGCGACATGACTGCGCT Ib A..ATG

1592749,1593859,1111,5' UTR
 1591407,1592748,1342,GT,START:Ends:1593861-1593859-,Old end=1591950
 1590575,1590693,119,INTERNAL,END: start 7 AG
 1589769,1589897,129,INTERNAL,
 1589129,1589284,156,INTERNAL,
 1588744,1588838,95,INTERNAL,START: end 125 GT
 1588116,1588359,244,INTERNAL,EXACT,AG-GT
 1587531,1587687,157,INTERNAL,EXACT,AG-GT
 1586991,1587213,223,INTERNAL,EXACT,AG-GT
 1586170,1586343,174,INTERNAL,EXACT,AG-GT
 1585316,1585491,176,INTERNAL,EXACT,AG-GT
 1584199,1584358,160,INTERNAL,EXACT,AG-GT
 1583632,1583743,112,AG,END:Starts:1580613-1582836-1580993-,Old start=1583632

1580613,1583633,3019,3' UTR

#####

ID=NCLIV_004300 + 17 TCTCAGCAGATGGACGGGAA

1606995,1607141,147,END:Starts:1605319-1605309-1605388-

1607856,1607931,76,EXACT,AG-GT

1608359,1608466,108,EXACT,AG-GT

1608776,1608889,114,EXACT,AG-GT

1609675,1609837,163,EXACT,AG-GT

1610132,1610184,53,EXACT,AG-GT

1610704,1610862,159,EXACT,AG-GT

1611201,1611454,254,START: end 22 AG

1611636,1611761,126,END: start -1 GT (ref:AG-GT)<< Possible error

1612117,1612342,226,EXACT,AG-GT

1612566,1613015,450,EXACT,AG-GT

1613721,1613794,74,EXACT,AG-GT

1614110,1614220,111,EXACT,AG-GT

1614452,1614785,334,EXACT,AG-GT

1614886,1615014,129,EXACT,AG-GT

1615240,1615298,59,EXACT,AG-GT

1615747,1615776,30,START:Ends:1616523-1615834-1616486-

>> RNA-Seq evidence = 17/17 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_004310 + 9 CCAGCAGCCATGACGCCAAA

1620764,1620953,190

1621408,1621456,49

1622088,1622154,67

1622782,1622880,99

1623257,1623352,96,EXACT,GT

1623882,1623947,66,EXACT,AG-GT
 1624452,1624523,72,EXACT,AG-GT
 1625344,1625384,41,EXACT,AG-GT
 1625796,1626657,862,START:EXACT

>> RNA-Seq evidence = 5/9 (55.6%)

>> Homology evidence = NONE

#####

ID=NCLIV_004432 - 1 GTCATTCAAATGGCGAGAAC
 1712578,1713735,1158

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_004471 - 1 CGGAAGTTGATGGCCGTTTG
 1734830,1735918,1089

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_004490 + 12 TCCGACCAGATGGAAGCGGA

1756781,1757738,958,END:Starts:1755123-1755072-1755073-

1758024,1758601,578,EXACT,AG-GT

1758967,1759330,364,START: end -93 AG-GC (ref:AG-GT)<< Possible error

1759498,1759638,141,EXACT,AG-GT

1760097,1760492,396,EXACT,AG-GT

1761012,1761270,259,EXACT,AG-GT

1761618,1761933,316,EXACT,AG-GT

1762654,1762829,176,EXACT,AG-GT

1763081,1763273,193,EXACT,AG-GT

1763967,1764102,136,EXACT,TAG|TGA|TAA:AG-GT

1764524,1764663,140,EXACT,AG-GT

1765291,1765587,297,START:Ends:1766476-1769753-1766973-

>> RNA-Seq evidence = 12/12 (100.0%)

>> Homology evidence = 237844774 0.0 105.4 83.87 1842 Toxoplasma gondii ME49
SWI/SNF-related matrix-associated actin-dependent regulator of chromatin

#####

ID=NCLIV_004590 - 6 AGGCCGTTTCATGGCCGCAA

1832590,1832686,97,END:Starts:1832068-1832066-

1833153,1833898,746,START: end 1373 GT

1834309,1834356,48,OVER: start -1156 and end 915 GT

1834691,1834832,142,OVER: start -1538 and end 439 GT

1835494,1835614,121

1836325,1836628,304

>> RNA-Seq evidence = 2/6 (33.3%)

>> Homology evidence = NONE

*** **CHROMOSOME II**

#####

ID=NCLIV_004630 - 12 TCAACAGTCATGAAGTTCGT

47138,47281,144,OVER:Starts:46197-46211-46242-

47514,47728,215,END: start -1303 AG (ref:AC-GT)<< Possible error

47835,48357,523,EXACT,AG-GT

48581,48790,210,EXACT,AG-GT

49292,49531,240,START: end 83 AG-GT

49754,49857,104

50291,50416,126,EXACT,AG-GT
 50740,50844,105,EXACT,AG-GT
 51052,51357,306,EXACT,TAGITGATAA:AG-GT
 51509,51567,59,START: end 490 GT
 51831,51906,76,OVER: start -322 and end 151 GT
 52474,52537,64

>> RNA-Seq evidence = 8/12 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_004770 + 2 CGCGTGCAGATGGAAGGCCT

145481,146344,864,END:Starts:144951-144948-

146801,147145,345,START:Ends:148300-148283-148436-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_004820 + 8 ACCACGTCAATGGAGGACTC

197997,198398,402,END:Starts:197037-197532-

198597,198733,137,EXACT,AG-GT

199076,199178,103,EXACT,AG-GT

199387,199789,403,EXACT,AG-GT

199901,199979,79,EXACT,AG-GT

200091,200814,724,END: start 105 AG-GT (ref:AG-GT)<< Possible error

201305,202615,1311,EXACT,AG-GT

202950,203183,234,OVER:Ends:203601-203684-203606-

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_004840 + 9 CCGCAGCCGATGGGGCCAGG
 227082,230470,3389
 231161,236373,5213,END: start 4896 GT (ref:AG-GT)<< Possible error
 236838,237076,239,EXACT,AG-GT
 237477,237557,81,EXACT,AG-GT
 238014,238067,54,EXACT,AG-GT
 238577,238681,105,EXACT,AG-GT
 239064,239225,162,EXACT,AG-GT
 239876,239990,115,EXACT,AG-GT
 240400,241970,1571,START:Ends:242427-242497-242489-

>> RNA-Seq evidence = 8/9 (88.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_004870 - 15 CTCTTTTTTATGGGGCCGGA
 271080,271753,674
 272347,272519,173,EXACT,AG-GT
 272960,273053,94,EXACT,AG-GT
 273691,274853,1163,EXACT,AG-GT
 275182,275911,730,EXACT,AG-GT
 276101,276291,191,EXACT,AG-GT
 276752,276926,175,EXACT,AG-GT
 277604,277664,61,START: end 140 GT
 278096,278441,346,END: start 18 AG (ref:AC-GT)<< Possible error
 278739,278875,137,EXACT,AG-GT
 278994,279063,70,START: end 195 AG-GT (ref:AC-GT)<< Possible error
 279528,279647,120,EXACT,AG-GT
 280365,280477,113,START: end 305 GT
 280797,281196,400
 282261,282415,155

>> RNA-Seq evidence = 12/15 (80.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_004870 - 15 CTCTTTTTTATGGGGCCGGA II A..ATG

282830,283415,586,5' UTR

282261,282829,569,GT,,Old end=282415 (-1000)

280797,281196,400,INTERNAL,

280365,280477,113,INTERNAL,START: end 305 GT

279528,279647,120,INTERNAL,EXACT,AG-GT

278994,279063,70,INTERNAL,START: end 195 AG-GT (ref:AC-GT)<< Possible error

278739,278875,137,INTERNAL,EXACT,AG-GT

278096,278441,346,INTERNAL,END: start 18 AG (ref:AC-GT)<< Possible error

277604,277664,61,INTERNAL,START: end 140 GT

276752,276926,175,INTERNAL,EXACT,AG-GT

276101,276291,191,INTERNAL,EXACT,AG-GT

275182,275911,730,INTERNAL,EXACT,AG-GT

273691,274853,1163,INTERNAL,EXACT,AG-GT

272960,273053,94,INTERNAL,EXACT,AG-GT

272347,272519,173,INTERNAL,EXACT,AG-GT

271080,271753,674,AG,,Old start=271080 (+ 1000)

270080,271081,1000,3' UTR

#####

ID=NCLIV_005100 - 1 CTCGTCGCGATGCGTACAGA

441071,442087,1017

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_005120 + 5 TAACAGTTAATGGATATACC

462496,463104,609,END:Starts:461227-461247-

463445,463497,53,EXACT,AG-GT

464127,464187,61,EXACT,AG-GT

464625,464817,193,START: end 1989 AG

464966,465168,203,OVER:Ends:467225-466462-466806-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_005130 - 6 CAAAGACACATGGAGGCGCA

466685,466997,313

467548,467709,162

468272,468375,104

468639,468705,67

469479,470761,1283

470887,470907,21

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_005280 + 6 CCAGTGCAGATGGGAGCACC

659192,661551,2360,END:EXACT

661810,661852,43,EXACT,AG-GT

662252,662684,433,START: end 106 AG

663194,663904,711,END: start -3 GT (ref:AG-GT)<< Possible error

664304,664400,97,EXACT,AG-GT

664928,665015,88,START:Ends:667832-668134-665443-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_005300 + 6 GCGCTCTACATGGCTACCCC

689438,689547,110,END:Starts:688552-688619-688980-

690124,690169,46,START: end -1 AG

690720,690800,81,END: start 16 GT (ref:AG-GT)<< Possible error

691210,691423,214,EXACT,AG-GT

691951,692024,74,EXACT,AG-GT

692759,692788,30,START:Ends:693297-693331-693330-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_005340 + 1 CTGCCGTTTCATGGCAGAAGA

714212,714826,615

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_005440 + 5 CGACCGCGGATGGTCCGCGT

779849,779916,68,OVER:Starts:780213-778987-

780422,780538,117,END: start -1435 GT

780918,781022,105,EXACT,AG-GT

781227,781315,89,EXACT,AG-GT

781547,781692,146,START:Ends:783065-783066-783071-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_005550 - 11 TCGAGGGAAATGCGCCGGGG

911453,911555,103,END:Starts:910728-910813-910878-

912101,912190,90,EXACT,AG-GT
 912998,913083,86,EXACT,AG-GT
 913671,913788,118,EXACT,AG-GT
 914034,914271,238,EXACT,AG-GT
 914774,915032,259,EXACT,AG-GT
 915498,915638,141,EXACT,AG-GT
 916217,916361,145,START: end 14 GT
 917019,917201,183,EXACT,AG
 917771,917906,136,EXACT,AG-GT
 918099,918108,10

>> RNA-Seq evidence = 10/11 (90.9%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_005550 - 11 TCGAGGGAAATGCGCCGGGG II A..ATG

918196,919108,913,5' UTR

918099,918195,97,GT,,Old end=918108 (-1000)

917771,917906,136,INTERNAL,EXACT,AG-GT

917019,917201,183,INTERNAL,EXACT,AG

916217,916361,145,INTERNAL,START: end 14 GT

915498,915638,141,INTERNAL,EXACT,AG-GT

914774,915032,259,INTERNAL,EXACT,AG-GT

914034,914271,238,INTERNAL,EXACT,AG-GT

913671,913788,118,INTERNAL,EXACT,AG-GT

912998,913083,86,INTERNAL,EXACT,AG-GT

912101,912190,90,INTERNAL,EXACT,AG-GT

911453,911555,103,AG,END:Starts:910728-910813-910878-,Old start=911453

910728,911454,725,3' UTR

#####

ID=NCLIV_005610 - 8 CGCAATCACATGGGAATCGT

949075,949136,62,END:Starts:947138-947354-947471-

949525,949686,162,EXACT,AG-GT

950026,950218,193,EXACT,AG-GT

950698,950799,102,EXACT,AG-GT

951186,951320,135,EXACT,AG-GT

951649,951702,54,EXACT,AG-GT

952170,952305,136,EXACT,AG-GT

952683,952729,47,START:Ends:953725-954129-

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_005610 - 8 CGCAATCACATGGGAATCGT II A..ATG

953171,953725,555,5' UTR

952683,953170,488,GT,START:Ends:953725-954129-,Old end=952729

952170,952305,136,INTERNAL,EXACT,AG-GT

951649,951702,54,INTERNAL,EXACT,AG-GT

951186,951320,135,INTERNAL,EXACT,AG-GT

950698,950799,102,INTERNAL,EXACT,AG-GT

950026,950218,193,INTERNAL,EXACT,AG-GT

949525,949686,162,INTERNAL,EXACT,AG-GT

949075,949136,62,AG,END:Starts:947138-947354-947471-,Old start=949075

947138,949076,1937,3' UTR

#####

ID=NCLIV_005640 + 1 GAGCCTGCGATGCTCTCCGA

977115,980240,3126

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_005650 - 4 CGACGGGTCATGAGCTGGAA

983131,983236,106,OVER:Starts:982372-982357-982392-

983932,985719,1788,END: start -1560 AG (ref:AC-GT)<< Possible error

986218,987247,1030,START: end 45 GT

987561,988650,1090

>> RNA-Seq evidence = 2/4 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_005660 - 1 CGACAAGAAATGTCTTTCAG

991459,991743,285

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_005680 - 2 CTGTTTGCGATGTCGTGGCG

997847,998181,335

998756,999191,436

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_005720 - 4 AGCTCAGCAATGTCGCAGAC

1020221,1021555,1335

1022102,1022181,80

1022514,1022734,221

1023651,1028476,4826

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_005850 + 3 CGCTGGTACATGGGGGCATG

1171244,1171288,45

1171728,1172126,399

1172862,1173560,699

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_005920 + 7 GCTCCGTAAATGGCGTCGTT

1240584,1241816,1233

1242338,1242406,69

1243110,1243478,369

1244048,1244103,56

1244598,1244653,56

1244842,1244966,125,EXACT,GT

1245317,1245754,438,START:EXACT

>> RNA-Seq evidence = 2/7 (28.6%)

>> Homology evidence = NONE

#####

ID=NCLIV_006020 - 7 GGCCCTCGAATGGACGTAGC

1317850,1318006,157,END:Starts:1317603-1317354-1317274-

1318412,1318518,107,EXACT,AG-GT

1318721,1318908,188,EXACT,AG-GT

1319876,1319931,56

1319991,1320181,191,END: start 78 AG-GT

1320509,1320688,180,EXACT,AG-GT

1321243,1321353,111,START:Ends:1323045-1321758-

>> RNA-Seq evidence = 6/7 (85.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_006020 - 7 GGCCCTCGAATGGACGTAGC II [CT]..ATG[ACT]

1321696,1321758,63,5' UTR

1321243,1321695,453,GT,START:Ends:1323045-1321758-,Old end=1321353

1320509,1320688,180,INTERNAL,EXACT,AG-GT

1319991,1320181,191,INTERNAL,END: start 78 AG-GT

1319876,1319931,56,INTERNAL,

1318721,1318908,188,INTERNAL,EXACT,AG-GT

1318412,1318518,107,INTERNAL,EXACT,AG-GT

1317850,1318006,157,AG,END:Starts:1317603-1317354-1317274-,Old start=1317850

1317274,1317851,576,3' UTR

Leaky:ID=NCLIV_006020 - 7 GGCCCTCGAATGGACGTAGC II TCGAATGG

1321354,1321758,405,5' UTR

1321243,1321353,111,GT,START:Ends:1323045-1321758-,Old end=1321353

1320509,1320688,180,INTERNAL,EXACT,AG-GT

1319991,1320181,191,INTERNAL,END: start 78 AG-GT

1319876,1319931,56,INTERNAL,

1318721,1318908,188,INTERNAL,EXACT,AG-GT

1318412,1318518,107,INTERNAL,EXACT,AG-GT

1317850,1318006,157,AG,END:Starts:1317603-1317354-1317274-,Old start=1317850

1317274,1317851,576,3' UTR

#####

ID=NCLIV_006040 - 1 TGGGAAGTAATGCTCCGTCG

1330050,1331072,1023,OVER:Starts:1329052-1329140-1329355-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_006100 - 3 TCGTCTTCAATGGAGGAAAA

1383408,1384166,759,END:Starts:1381110-1381245-1381246-

1384574,1391388,6815,START: end 4726 GT

1392283,1393165,883,OVER:Ends:1396114-1397161-1395540-

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_006140 - 10 GCCTGATCCATGGCAGACGT

1422092,1422136,45,OVER:Starts:1421869-1421588-1421825-

1422814,1422974,161,EXACT,AG-GT

1424508,1424539,32,OVER: start -833 and end 104 GT

1426367,1426405,39

1426979,1427068,90,EXACT,ATG:AG-GT

1427392,1427565,174,EXACT,AG

1428150,1428251,102,EXACT,AG-GT

1428645,1428716,72,START: end 300 AG-GT (ref:AC-GT)<< Possible error

1429757,1430300,544,START: end 106 AG-GT

1430917,1432405,1489,START:EXACT

>> RNA-Seq evidence = 7/10 (70.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_006190 + 2 TTGGGCGCGATGTTTCAGTT

1489838,1490881,1044,OVER:Starts:1489789-1489765-1490202-

1491733,1491879,147,START:Ends:1492425-1492587-1492369-

>> RNA-Seq evidence = 1/2 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_006210 - 9 TCTGTCCCCATGGCGTCGCC

1502167,1503361,1195,END:Starts:1501505-1501630-

1503739,1503950,212,START: end 269 GT

1504244,1504519,276

1504962,1506493,1532

1507035,1507292,258

1507828,1508298,471

1508934,1509122,189,END: start -184 AG

1509913,1510051,139,EXACT,AG-GT

1510631,1511407,777,START:Ends:1512167-1511799-

>> RNA-Seq evidence = 5/9 (55.6%)

>> Homology evidence = NONE

#####

ID=NCLIV_006280 - 7 CTTCCTCGATGGGGGATCC

1554534,1554864,331

1555328,1555963,636,END: start -128 AG

1556413,1556490,78,START: end -1 GT

1557132,1557306,175

1557873,1558011,139

1558464,1558942,479,END: start -171 AG

1559200,1559890,691,START:Ends:1561067-1559613-

>> RNA-Seq evidence = 4/7 (57.1%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_006280 - 7 CTTCCTCGATGGGGGATCC II [CT]..ATG[ACT]

1559495,1559613,119,5' UTR

1559200,1559494,295,GT,START:Ends:1561067-1559613-,Old end=1559890

1558464,1558942,479,INTERNAL,END: start -171 AG

1557873,1558011,139,INTERNAL,
 1557132,1557306,175,INTERNAL,
 1556413,1556490,78,INTERNAL,START: end -1 GT
 1555328,1555963,636,INTERNAL,END: start -128 AG
 1554534,1554864,331,AG,,Old start=1554534 (+ 1000)
 1553534,1554535,1000,3' UTR

#####

ID=NCLIV_006330 - 11 CCATGCGCCATGTGACCAG

1597325,1597394,70,END:Starts:1596463-1596376-1596351-
 1597709,1597773,65,START: end -7 GT
 1598118,1598271,154
 1598554,1598636,83
 1599059,1599504,446
 1599981,1600086,106
 1600522,1600610,89
 1601061,1601268,208,EXACT,AG
 1601529,1601709,181,START: end -142 GT
 1602081,1602172,92
 1602727,1603077,351

>> RNA-Seq evidence = 4/11 (36.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_006340 + 7 GAGCTGCGGATGGTCTGGGG

1606221,1606360,140,END:Starts:1604490-1605017-1606119-
 1606724,1606841,118,EXACT,AG-GT
 1607444,1607491,48,EXACT,AG-GT
 1607880,1607980,101,EXACT,GT
 1608235,1608286,52,EXACT,AG-GT
 1608626,1608694,69,EXACT,AG-GT

1609314,1609421,108,START:Ends:1609958-1610092-1609981-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_006400 + 4 CCCACCCCAATGGTCAACAC

1659828,1659924,97

1661340,1662216,877,START: end -28 AG-GT

1663129,1663312,184,END: start -559 AG-GT (ref:AG-GT)<< Possible error

1663707,1664543,837,START:Ends:1666228-1666479-1665744-

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_006400 + 4 CCCACCCCAATGGTCAACAC II A..ATG

1658828,1659524,697,5' UTR

1659525,1659924,400,GT,,Old start=1659828 (+ 1000)

1661340,1662216,877,INTERNAL,START: end -28 AG-GT

1663129,1663312,184,INTERNAL,END: start -559 AG-GT (ref:AG-GT)<< Possible error

1663707,1664543,837,AG,START:Ends:1666228-1666479-1665744-,Old end=1664543

1664544,1666479,1936,3' UTR

#####

ID=NCLIV_006410 - 4 GTGGAACAGATGGTAGTCGA

1666106,1666337,232

1666769,1667669,901

1667737,1667758,22

1667822,1667839,18

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_006520 + 6 GGCTTCGCAATGAGGAACTC

1791750,1791858,109,END:EXACT

1792288,1792467,180,START: end 854 AG-GT

1793078,1793321,244,END: start -790 AG-GT

1794189,1794527,339,EXACT,AG-GT

1795144,1795933,790,EXACT,AG-GT

1796387,1796467,81,START:Ends:1797447-1797623-1797463-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_006590 + 8 CTGGTGCAGATGGCGGTTGA

1852447,1852471,25

1852754,1852890,137,START: end 442 GT

1853174,1853332,159,END: start -420 GT

1853929,1854121,193,START: end 328 AG

1854755,1854879,125

1855313,1855448,136

1855567,1855665,99

1856410,1856705,296

>> RNA-Seq evidence = 3/8 (37.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_006610 + 5 GTCGTGCAAATGTACCCGAA

1876929,1877072,144

1877513,1877821,309

1878225,1878440,216

1878920,1879431,512

1879637,1880135,499

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_006650 + 1 CGCTCCGCGATGCCGAAAAT

1920873,1921646,774

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_006670 - 1 GCGGAAGCGATGACGGAAAC

1929159,1929644,486

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_006690 - 1 TTTCTCGCAATGACCGAGAA

1940708,1941613,906

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_006760 + 4 GACAGCGCAATGCGCCTGTG

2016790,2017707,918

2018062,2018134,73

2018431,2018769,339

2019005,2019249,245

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_006820 + 4 GCTTGCATCATGAACGGCTT

2047110,2047610,501

2047980,2048051,72

2048347,2048461,115,EXACT,GT

2049004,2049518,515,START:Ends:2050526-2050495-

>> RNA-Seq evidence = 2/4 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_006840 - 6 GTCGTCTCTATGGCACCGCA

2057633,2057726,94,END:Starts:2056784-2056711-2056805-

2057936,2058314,379,START: end -56 GT

2058762,2058840,79

2059578,2059732,155

2060111,2060468,358

2060604,2060927,324

>> RNA-Seq evidence = 2/6 (33.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_006850 - 10 TAGAAGCTCATGGGCGGTCA

2063989,2064177,189,END:Starts:2063170-2063156-2063169-

2064770,2064878,109,EXACT,AG-GT

2065182,2065279,98,START: end 172 AG-GT

2065777,2065839,63,EXACT,AG-GT

2066151,2066231,81,EXACT,AG-GT

2066745,2066797,53,EXACT,AG-GT

2067173,2067353,181,EXACT,AG-GT

2067928,2068215,288,EXACT,AG-GT

2068892,2075073,6182

2075412,2075424,13

>> RNA-Seq evidence = 8/10 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_006870 - 1 CTCCTGCCGATGGAGGTCCG

2088340,2088699,360,OVER:Starts:2084890-2086584-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_006880 - 46 TCTCGCGCAATGTTGCGACT

2094082,2094259,178,END:EXACT

2094911,2094979,69,EXACT,AG-GT

2095554,2095656,103,EXACT,AG-GT

2096200,2096310,111,EXACT,AG-GT

2096576,2096682,107,EXACT,AG-GT

2097493,2097598,106,EXACT,AG-GT

2097935,2098093,159,EXACT,AG-GT

2098308,2098559,252,EXACT,AG-GT

2099015,2099175,161,EXACT,AG-GT

2099943,2100033,91,EXACT,AG-GT

2100295,2100343,49,EXACT,AG-GT

2100786,2100923,138,EXACT,AG-GT

2101036,2101125,90,EXACT,GT

2101533,2101646,114,EXACT,AG

2102059,2102124,66,EXACT,AG-GT

2102504,2102603,100,EXACT,AG-GT

2102899,2103062,164,START: end -15 GT
2103596,2103671,76,END: start 14 AG (ref:AC-GT)<< Possible error
2104047,2104196,150,EXACT,AG-GT
2104749,2104939,191,EXACT,AG-GT
2105818,2105899,82,EXACT,AG-GT
2106416,2106505,90,EXACT,AG-GT
2107071,2107209,139,EXACT,AG-GT
2107805,2107904,100,EXACT,AG-GT
2108451,2108539,89,EXACT,AG-GT
2108872,2108967,96,START: end -27 GT
2109370,2109432,63,END: start 9 AG (ref:AC-GT)<< Possible error
2109841,2109941,101,EXACT,AG-GT
2110723,2110853,131,EXACT,AG-GT
2111295,2111522,228,EXACT,Info:AG-GT-AG-GC-acceptor=AT-
2112017,2112166,150,EXACT,AG-GT
2112787,2112887,101,EXACT,AG-GT
2113317,2113410,94,EXACT,AG-GT
2113836,2113914,79,EXACT,AG-GT
2114254,2114354,101,EXACT,ATG:AG-GT
2114667,2115395,729,EXACT,AG-GT
2115987,2116130,144,EXACT,AG-GT
2116753,2116862,110,EXACT,AG-GT
2117457,2117603,147,EXACT,AG-GT
2117959,2118484,526,EXACT,AG-GT
2119492,2119597,106,EXACT,AG-GT
2120047,2120170,124,START: end 3 GT
2120686,2120821,136,END: start 7 AG
2121543,2121632,90,EXACT,AG-GT
2122033,2122137,105,EXACT,AG-GT
2122494,2122673,180,START:Ends:2124408-2124405-

>> RNA-Seq evidence = 46/46 (100.0%)

>> Homology evidence = NONE

*** CHROMOSOME III

#####

ID=NCLIV_006930 - 2 AGTCTGGCAATGACAGCAGA
35472,35682,211,END:Starts:29981-27174-34893-
36031,36161,131,START:Ends:36467-36463-36442-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_006940 + 2 CCGTCTCAAATGGCAAGAGT
38118,38262,145
38812,39836,1025

>> RNA-Seq evidence = NONE

>> Homology evidence = 237844658 0.0 78.1 77.28 676 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_006960 - 8 CTCCACTTTATGGGGGCTAG
58959,59192,234,END:Starts:57280-57351-
59549,59653,105,EXACT,AG-GT
60446,60515,70,END: start -145 AG
61122,61360,239,EXACT,AG-GT
61776,62105,330,START: end -15 GT
62672,62907,236

63343,63509,167

63973,63983,11

>> RNA-Seq evidence = 5/8 (62.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_007090 - 10 CTCTCTGCAATGCTCCGTCT

171139,171239,101,END:Starts:170559-167582-

171671,171753,83,START: end 386 GT

171879,171969,91,OVER: start -208 and end 170 GT

173650,173697,48,END: start -122 AG

174943,174991,49,EXACT,AG-GT

175423,175509,87,START: end 2 GT

176067,176138,72,END: start 6 AG (ref:AC-GT)<< Possible error

176439,176944,506,START: end 1 GT

177183,177272,90,END: start 7 AG

177634,178015,382,START:Ends:177950-177955-

>> RNA-Seq evidence = 9/10 (90.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_007100 + 8 CCGGCGGACATGTTGCCTGA

181553,181641,89,END:Starts:180203-180666-

181907,182182,276,START: end 672 AG

182405,182854,450,END: start -498 AG

183287,183825,539,START: end 2033 AG

184466,185858,1393,END: start -1179 AG

186198,186571,374,END: start -10 GT

186967,187191,225,START: end 29 AG-GT

187361,187584,224

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_007100 + 8 CCGGCGGACATGTTGCCTGA III [CT]..ATG[ACT]

180666,180853,188,5' UTR

180854,181641,788,GT,END:Starts:180203-180666-,Old start=181553

181907,182182,276,INTERNAL,START: end 672 AG

182405,182854,450,INTERNAL,END: start -498 AG

183287,183825,539,INTERNAL,START: end 2033 AG

184466,185858,1393,INTERNAL,END: start -1179 AG

186198,186571,374,INTERNAL,END: start -10 GT

186967,187191,225,INTERNAL,START: end 29 AG-GT

187361,187584,224,AG,,Old end=187584 (-1000)

187585,188584,1000,3' UTR

Leaky:ID=NCLIV_007100 + 8 CCGGCGGACATGTTGCCTGA III
AGCAATGA

180666,180910,245,5' UTR

180911,181641,731,GT,END:Starts:180203-180666-,Old start=181553

181907,182182,276,INTERNAL,START: end 672 AG

182405,182854,450,INTERNAL,END: start -498 AG

183287,183825,539,INTERNAL,START: end 2033 AG

184466,185858,1393,INTERNAL,END: start -1179 AG

186198,186571,374,INTERNAL,END: start -10 GT

186967,187191,225,INTERNAL,START: end 29 AG-GT

187361,187584,224,AG,,Old end=187584 (-1000)

187585,188584,1000,3' UTR

#####

ID=NCLIV_007105 - 1 TCATCAGCGATGCCTTCAGT

191616,192131,516

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_007160 + 1 TTTTCTGCGATGAAGGAAAT
222771,223460,690

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_007220 + 17 TCCTCGCCAATGGCGTGGCC

248610,248796,187,END:Starts:248373-248369-

249061,249366,306,EXACT,AG-GT

249751,249953,203,EXACT,AG-GT

250256,250406,151,END: start -14 AG-GT

250642,250915,274,EXACT,AG-GT

251052,251215,164,EXACT,AG-GT

251605,251715,111,EXACT,AG-GT

252042,252175,134,EXACT,AG-GT

252586,252820,235,START: end -11 AG

253085,253249,165,END: start -4 GT (ref:AG-GT)<< Possible error

253959,254168,210,EXACT,AG-GT

254409,254556,148,EXACT,AG-GT

255052,255211,160,EXACT,AG-GT

255629,255811,183,EXACT,AG-GT

256101,256192,92,EXACT,AG-GT

256614,256725,112,EXACT,AG-GT

256873,257079,207,START:Ends:257731-257745-257737-

>> RNA-Seq evidence = 17/17 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_007270 - 3 AGAAAGCAAATGGAGGCCGA

283031,283102,72,END:EXACT

283578,283732,155,EXACT,AG-GT

284117,285035,919,START:Ends:286289-286292-284905-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_007410 - 1 TTGCGGTCAATGGGCTACGA

427488,427889,402

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_007570 - 10 GGGTCCCCCATGGAAACGGC

541414,541483,70

542044,542110,67

542322,542374,53

542799,542832,34

543380,543440,61

544110,544289,180

544602,544676,75

545089,545232,144

545666,546045,380

546489,546705,217

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_007600 + 1 GGAGTCCTGATGGGAACGCC
569570,571834,2265

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_007610 + 10 CTTCTGTCGATGGCGAGAGC
574725,574876,152,END:Starts:573597-573585-

575534,575634,101,EXACT,AG-GT

576291,576486,196

577019,577104,86

577392,577508,117

577827,577910,84,END: start 21 GT

578051,578115,65,START: end -13 AG

578558,578649,92,END: start 8 GT (ref:AG-GT)<< Possible error

578982,579047,66,EXACT,AG-GT

579895,579943,49,START:Ends:580604-580554-580599-

>> RNA-Seq evidence = 7/10 (70.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_007610 + 10 CTTCTGTCGATGGCGAGAGC III A..ATG
573597,574217,621,5' UTR

574218,574876,659,GT,END:Starts:573597-573585-,Old start=574725

575534,575634,101,INTERNAL,EXACT,AG-GT

576291,576486,196,INTERNAL,

577019,577104,86,INTERNAL,

577392,577508,117,INTERNAL,

577827,577910,84,INTERNAL,END: start 21 GT

578051,578115,65,INTERNAL,START: end -13 AG
 578558,578649,92,INTERNAL,END: start 8 GT (ref:AG-GT)<< Possible error
 578982,579047,66,INTERNAL,EXACT,AG-GT
 579895,579943,49,AG,START:Ends:580604-580554-580599-,Old end=579943
 579944,580604,661,3' UTR

#####

ID=NCLIV_007620 - 5 GTCTCCTCAATGGATTTTGG

586047,586237,191,END:Starts:585141-585150-585165-

586849,586957,109,START: end -6 GT

587218,587477,260

587872,587976,105,EXACT,AG

588479,588662,184,START:Ends:589168-589203-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_007620 - 5 GTCTCCTCAATGGATTTTGG III [CT]..ATG[ACT]

588723,589168,446,5' UTR

588479,588722,244,GT,START:Ends:589168-589203-,Old end=588662

587872,587976,105,INTERNAL,EXACT,AG

587218,587477,260,INTERNAL,

586849,586957,109,INTERNAL,START: end -6 GT

586047,586237,191,AG,END:Starts:585141-585150-585165-,Old start=586047

585141,586048,906,3' UTR

Leaky:ID=NCLIV_007620 - 5 GTCTCCTCAATGGATTTTGG III CTCAATGG

588663,589168,506,5' UTR

588479,588662,184,GT,START:Ends:589168-589203-,Old end=588662

587872,587976,105,INTERNAL,EXACT,AG

587218,587477,260,INTERNAL,

586849,586957,109,INTERNAL,START: end -6 GT

586047,586237,191,AG,END:Starts:585141-585150-585165-,Old start=586047

585141,586048,906,3' UTR

#####

ID=NCLIV_007720 + 1 TTCTAGGGAATGCAGTGTCC

675258,676118,861

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_007740 + 3 CCTTCGCTGATGGATCCGTA

692057,692507,451

692767,692930,164

693763,694347,585

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_007750 - 5 GTTCGCGACATGCAGGTGGA

697816,697866,51

698161,698219,59,EXACT,AG-GT

698806,699698,893,START: end 390 GT

700143,700318,176,EXACT,AG-GT

700901,702097,1197

>> RNA-Seq evidence = 3/5 (60.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_007820 - 4 AGGGTCCATATGGTCACAGT

763725,765003,1279

765259,765418,160

765801,765929,129

766671,766917,247

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_007970 + 3 TTTTACCCCATGGATACCAA

870241,870499,259

871333,871547,215

871676,872080,405

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_008000 + 2 ATTCCGGAAATGTTCGAGTTC

891784,894576,2793

895960,896055,96

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_008010 + 10 CGAGGCCCAATGGAGAAAAA

898672,899577,906,END:Starts:899399-899311-897788-

900266,900384,119,EXACT,AG-GT

900849,900934,86,EXACT,AG-GT

901328,902222,895,END: start 84 AG-GT (ref:AG-GT)<< Possible error

902741,902846,106,START: end 77 Info:TAG|TGA|TAA:AG-GT-AG-GT-donor=AA-

903600,903844,245,END: start -459 TAG|TGA|TAA:AG-GT

904467,904592,126,START: end -6 AG

904974,905072,99,END: start 17 GT (ref:AG-GT)<< Possible error

905532,905671,140,EXACT,AG-GT

906438,906709,272,START:Ends:907198-907202-

>> RNA-Seq evidence = 10/10 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_008010 + 10 CGAGGCCCAATGGAGAAAAA III A..ATG

899399,899409,11,5' UTR

899410,899577,168,GT,END:Starts:899399-899311-897788-,Old start=898672

900266,900384,119,INTERNAL,EXACT,AG-GT

900849,900934,86,INTERNAL,EXACT,AG-GT

901328,902222,895,INTERNAL,END: start 84 AG-GT (ref:AG-GT)<< Possible error

902741,902846,106,INTERNAL,START: end 77 Info:TAG|TGA|TAA:AG-GT-AG-GT-donor=AA-

903600,903844,245,INTERNAL,END: start -459 TAG|TGA|TAA:AG-GT

904467,904592,126,INTERNAL,START: end -6 AG

904974,905072,99,INTERNAL,END: start 17 GT (ref:AG-GT)<< Possible error

905532,905671,140,INTERNAL,EXACT,AG-GT

906438,906709,272,AG,START:Ends:907198-907202-,Old end=906709

906710,907202,493,3' UTR

#####

ID=NCLIV_008040 - 7 TAACCCGGTATGCAGGCAGC

930137,930211,75

930434,930607,174

931028,931136,109

931402,931493,92

931707,931841,135

932295,933124,830

933758,933845,88

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_008050 - 1 CTGCTAGCTATGCAAACCTAG
940223,940693,471

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_008140 + 2 CGCCTGTAGCCGCCGCTTC
1050088,1050410,323,START:Ends:1056390-1059577-
1050766,1054435,3670,OVER:Ends:1056390-1059577-

>> RNA-Seq evidence = 1/2 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_008150 + 7 TTAAGACTCATGGTAAGAGT
1059303,1059305,3,OVER:Ends:1056390-1059577-
1059858,1060039,182,END: start -175 GT
1060668,1060742,75,EXACT,AG-GT
1061363,1061438,76,EXACT,AG-GT
1062260,1062427,168,EXACT,AG-GT
1062738,1062891,154,EXACT,AG-GT
1063231,1063394,164,START:Ends:1063967-1063950-1065337-

>> RNA-Seq evidence = 6/7 (85.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_008200 - 7 CCGGGAGAGATGCAACGAGC
1099219,1099515,297
1100108,1108150,8043

1108520,1111020,2501

1111654,1112022,369

1112306,1112440,135

1113173,1113729,557

1114110,1114333,224

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_008260 - 9 TCTGCCCGAATGGAGGGTGC

1204281,1204385,105,END:EXACT

1205102,1205215,114,END: start -224 AG-GT (ref:AC-GT)<< Possible error

1205669,1205756,88,EXACT,AG-GT

1206263,1206373,111,EXACT,AG-GT

1207094,1207266,173,EXACT,GT

1207551,1207713,163

1208221,1208390,170

1209050,1209160,111

1209874,1210044,171

>> RNA-Seq evidence = 5/9 (55.6%)

>> Homology evidence = NONE

#####

ID=NCLIV_008360 + 1 CGATCTGCAATGCACATCGC

1278152,1279033,882

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_008440 + 2 TCCTCCGGGATGCGCTGCGG

1334230,1335103,874

1335816,1336513,698

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_008600 + 1 AGCAGCGTAATGCCGGTCTC

1456875,1458464,1590

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_008670 + 5 GTCTTCGCCATGTCGGTGGT

1543117,1543204,88,END:Starts:1542295-1542378-1542289-

1543711,1543810,100,EXACT,AG-GT

1544206,1544326,121,START: end 206 AG

1544725,1544832,108,END: start -13 GT (ref:AG-GT)<< Possible error

1545237,1545362,126,START:Ends:1545700-1547197-1545747-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_008750 - 2 ACAACAGGCATGAGGGCTAC

1596557,1596997,441,END:Starts:1596257-1596309-

1597416,1597568,153,START:Starts:1597416-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_008750 - 2 ACAACAGGCATGAGGGCTAC III [CT]..ATG[ACT]

1597608,1598568,961,5' UTR

1597416,1597607,192,GT,START:Starts:1597416-,Old end=1597568 (-1000)

1596557,1596997,441,AG,END:Starts:1596257-1596309-,Old start=1596557

1596257,1596558,300,3' UTR

Leaky:ID=NCLIV_008750 - 2 ACAACAGGCATGAGGGCTAC III
AGGCATGA

1597569,1598568,1000,5' UTR

1597416,1597568,153,GT,START:Starts:1597416-,Old end=1597568 (-1000)

1596557,1596997,441,AG,END:Starts:1596257-1596309-,Old start=1596557

1596257,1596558,300,3' UTR

#####

ID=NCLIV_008760 + 5 GTTCAAGCCATGATACATAG

1599945,1600941,997,END:EXACT

1601436,1602446,1011,EXACT,AG-GT

1602718,1602816,99,EXACT,TAG|TGA|TAA:AG-GT

1603359,1603469,111,EXACT,AG-GT

1603950,1604125,176,START:Ends:1604855-1604472-1604128-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_008870 - 2 TCCACCGAGATGAGCCCTAA

1685972,1686148,177

1686445,1686645,201

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_008960 + 6 TTCTAGTCAATGGAGAGCGA

1719704,1720064,361,END:Starts:1717635-1719151-1719098-

1720199,1720277,79,EXACT,ATG:AG-GT
 1720680,1720860,181,EXACT,AG-GT
 1721029,1721133,105,EXACT,AG-GT
 1721282,1721395,114,EXACT,AG-GT
 1721761,1722420,660,START:Ends:1723026-1721864-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = 237840450 0.0 69.5 83.38 1279 Toxoplasma gondii ME49
 phospholipase/carboxylesterase domain containing protein

#####

ID=NCLIV_008980 - 13 TCCGGCGGCATGTCTTTCAA

1728560,1728662,103,END:Starts:1727815-1727500-
 1729396,1729494,99,EXACT,AG-GT
 1729927,1730379,453,EXACT,AG-GT
 1730757,1730931,175,START: end 622 AG-GT
 1731431,1731553,123,END: start -674 AG-GT
 1731907,1732005,99,EXACT,AG-GT
 1732271,1732392,122,END: start -66 AG-GT
 1732734,1732798,65,EXACT,AG-GT
 1733072,1733412,341,EXACT,AG-GT
 1733778,1733853,76,EXACT,AG-GT
 1734244,1735742,1499,EXACT,AG-GT
 1736256,1736769,514,EXACT,AG-GT
 1737003,1737842,840,START:Ends:1739089-1739785-

>> RNA-Seq evidence = 13/13 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_009000 - 6 GCATCCGCCATGACCGTCGG

1741046,1741074,29

1741506,1741601,96

1742140,1742352,213

1742480,1743310,831

1743563,1747049,3487

1747550,1748311,762

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_009050 - 6 TAGGTTGGCATGAGGTGGAT

1763069,1764352,1284

1765146,1765461,316

1765677,1765831,155

1766208,1766399,192

1766798,1766874,77

1767775,1768300,526

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_009110 - 10 CGAATTCCAATGGAGAGCCA

1798208,1798365,158

1798754,1798818,65

1799408,1799483,76

1800673,1801304,632

1801630,1801750,121

1801916,1801963,48

1802177,1802262,86

1802665,1802916,252

1803256,1803575,320

1804576,1804662,87

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_009220 + 3 CGTTCCGCAATGCCACTTCC

1894184,1898601,4418,END:Starts:1893832-1897023-1895526-

1898984,1899146,163,EXACT,AG-GT

1899576,1900637,1062

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_009260 - 1 GGTGGCGCGATGCCGCCTGC

1920534,1924379,3846

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_009320 + 1 TTTTTCGAGATGTCCACGGT

1953269,1955389,2121

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_009400 - 1 TGCTTCCAGATGGAGGCGAT

2012385,2018657,6273

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_009480 - 6 TGCTTCCGCATGGCGGCCGC

2069940,2071934,1995

2072605,2072626,22

2073557,2074914,1358

2075477,2075625,149

2076318,2076937,620

2077333,2077364,32

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_009490 + 7 GGACAGGAAATGATTCAGGC

2118125,2118312,188,END:EXACT

2118672,2118980,309,START: end 3 AG

2119633,2120023,391,END: start 18 GT

2120337,2120454,118,EXACT,AG-GT

2120677,2120814,138,START: end 5 AG

2120961,2121154,194,END: start 8 GT

2121312,2121512,201,START:Ends:2124631-2124710-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_009490 + 7 GGACAGGAAATGATTCAGGC III [CT]..ATG[ACT]

2117125,2118106,982,5' UTR

2118107,2118312,206,GT,END:EXACT,Old start=2118125 (+ 1000)

2118672,2118980,309,INTERNAL,START: end 3 AG

2119633,2120023,391,INTERNAL,END: start 18 GT

2120337,2120454,118,INTERNAL,EXACT,AG-GT

2120677,2120814,138,INTERNAL,START: end 5 AG

2120961,2121154,194,INTERNAL,END: start 8 GT

2121312,2121512,201,AG,START:Ends:2124631-2124710-,Old end=2121512

2121513,2124710,3198,3' UTR

Leaky:ID=NCLIV_009490 + 7 GGACAGGAAATGATTCAGGC III
GGAAATGA

2117125,2118124,1000,5' UTR

2118125,2118312,188,GT,END:EXACT,Old start=2118125 (+ 1000)

2118672,2118980,309,INTERNAL,START: end 3 AG

2119633,2120023,391,INTERNAL,END: start 18 GT

2120337,2120454,118,INTERNAL,EXACT,AG-GT

2120677,2120814,138,INTERNAL,START: end 5 AG

2120961,2121154,194,INTERNAL,END: start 8 GT

2121312,2121512,201,AG,START:Ends:2124631-2124710-,Old end=2121512

2121513,2124710,3198,3' UTR

*** **CHROMOSOME IV** ***

#####

ID=NCLIV_009530 + 1 GCCTTCCAGATGGACCCGCC
42585,46508,3924

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_009590 - 3 GATCTCGCGATGTCAGGAGC
76247,76717,471,END:Starts:72597-75377-75339-
77185,77631,447,EXACT,ATG:AG-GT
78044,78343,300,START:Ends:79359-79430-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_009650 + 11 AACCTTCAAATGGGGACCCA

133335,133517,183,END:Starts:132456-131830-

133807,133881,75,EXACT,AG-GT

134345,134705,361,START: end 4 Info:AG-GT-Stop Codon:AG-GC-

134913,134965,53,END: start -1 GT

135558,135607,50,END: start -393 AG-GT

135975,136058,84,EXACT,AG-GT

136608,136683,76,EXACT,AG-GT

137025,137333,309,EXACT,AG-GT

137687,137757,71,EXACT,AG-GT

138168,138269,102,EXACT,AG-GT

138901,138952,52,OVER:Ends:140017-139964-140194-

>> RNA-Seq evidence = 10/11 (90.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_009660 - 2 GCCGTCGCCATGTCCGGGTAG

139273,140021,749,END:Starts:137988-138544-

140481,142047,1567,START:Ends:141526-144496-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_009660 - 2 GCCGTCGCCATGTCCGGGTAG IV [CT]..ATG[ACT]

141511,141526,16,5' UTR

140481,141510,1030,GT,START:Ends:141526-144496-,Old end=142047

139273,140021,749,AG,END:Starts:137988-138544-,Old start=139273
137988,139274,1285,3' UTR
Leaky:ID=NCLIV_009660 - 2 GCCGTCGCCATGTCGGGTAG IV A..ATG
140494,141526,1033,5' UTR
140481,140493,13,GT,START:Ends:141526-144496-,Old end=142047
139273,140021,749,AG,END:Starts:137988-138544-,Old start=139273
137988,139274,1285,3' UTR

ID=NCLIV_009690 + 20 TCGTGTCCAATGGTGGAGCC
165597,166323,727,END:Starts:164668-164819-
166829,166936,108,END: start -2 GT
167370,167536,167,EXACT,AG-GT
167846,167911,66,START: end -1 AG
168199,169807,1609,END: start 19 GT (ref:AG-GT)<< Possible error
170163,170621,459,EXACT,TAG|TGA|TAA:AG-GT
171038,171835,798,END: start -54 TAG|TGA|TAA:AG-GT (ref:AG-GT)<< Possible error
172047,172160,114,EXACT,AG-GT
173014,173357,344,EXACT,AG-GT
173552,173733,182,EXACT,AG
174261,174587,327,EXACT,AG-GT
174942,175171,230,START: end -4 AG-GC (ref:AG-GT)<< Possible error
175281,175439,159,EXACT,AG-GT
176068,176111,44,OVER: start -32 and end 25 AG-GT
176306,176339,34
176449,176547,99,EXACT,AG-GT
176665,176758,94,EXACT,AG-GT
176854,176929,76,EXACT,AG-GT
177310,177423,114,EXACT,AG-GT
177663,177827,165,START:Ends:178583-178587-178534-

>> RNA-Seq evidence = 18/20 (90.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_009810 - 13 GCCGTCGCCATGTGGGCCGC

250157,250288,132,END:EXACT

250778,250940,163,EXACT,AG-GT

251649,252010,362,EXACT,AG-GT

252362,252521,160,EXACT,AG-GT

252875,253963,1089,START: end 856 AG-GT

254373,254819,447,END: start -1498 AG-GT

255323,255618,296,EXACT,AG-GT

256447,257039,593,EXACT,AG-GT

257541,258299,759,EXACT,AG-GT

258738,259270,533,END: start 141 AG-GC (ref:GC-GC)<< Possible error

259888,260165,278,EXACT,AG-GT

260358,260732,375,EXACT,AG-GT

261482,262414,933,START:Ends:264033-264728-262998-

>> RNA-Seq evidence = 13/13 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_009820 - 5 TACTTAGAAATGACAAAAC

265405,265579,175,END:Starts:264787-264869-265166-

266005,266534,530,END: start 24 AG-GC (ref:AC-GT)<< Possible error

267078,267222,145,EXACT,AG-GT

267751,267840,90,EXACT,TAGITGAI TAA:AG-GT

267987,268033,47

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_010030 + 1 GAAGTTGTTATGAGTCTCAA
392666,393907,1242

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_010060 - 1 CGGAAGTTGATGGCAGTTTG
404050,405201,1152

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_010070 - 1 TCGCATTAAATGGTCGGCAG
407752,409023,1272

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_010170 + 6 CTGACGTCGATGGCGCCGAC
482630,483590,961
483996,484669,674
485105,485189,85
485537,485616,80
486240,489542,3303,EXACT,GT
490018,490266,249,START:Starts:490018-

>> RNA-Seq evidence = 2/6 (33.3%)

>> Homology evidence = 237841154 0.0 96.4 85.20 680 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_010190 + 3 CCTTCCAGATGGTCCAACC

500860,501786,927,END:Starts:500767-499637-499690-

503179,503354,176,END: start -347 AG-GT (ref:AG-GT)<< Possible error

503919,504345,427,START:Ends:503946-504788-506127-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_010510 - 7 TTCGAAGAAATGCGCACCAT

753374,753541,168,END:EXACT

754535,754603,69,EXACT,AG-GT

755268,755356,89,EXACT,AG-GT

755843,755963,121,EXACT,AG-GT

756513,756618,106,EXACT,AG-GT

757124,757202,79,EXACT,AG-GT

757778,757790,13,START:EXACT

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_010510 - 7 TTCGAAGAAATGCGCACCAT IV A..ATG

757956,758790,835,5' UTR

757778,757955,178,GT,START:EXACT,Old end=757790 (-1000)

757124,757202,79,INTERNAL,EXACT,AG-GT

756513,756618,106,INTERNAL,EXACT,AG-GT

755843,755963,121,INTERNAL,EXACT,AG-GT

755268,755356,89,INTERNAL,EXACT,AG-GT

754535,754603,69,INTERNAL,EXACT,AG-GT

753374,753541,168,AG,END:EXACT,Old start=753374 (+ 1000)

752374,753375,1000,3' UTR

#####

ID=NCLIV_010530 - 1 TCCGACTAGATGGCCGACTC

767619,768449,831

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_010650 - 2 ATCTTCCCATGGGAGCGGC

885293,885876,584,END:Starts:883953-884434-884517-

886458,886770,313,START:Ends:887328-887354-887304-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_010741 + 3 CGTGGCGCGATGCTGACATA

959614,960273,660

961139,961387,249

961447,961488,42

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_010790 - 8 TCTGCCGCCATGCTGCCTCC

1029140,1029324,185

1030449,1030511,63

1030898,1030958,61

1031539,1031575,37

1031909,1032010,102

1032411,1032722,312

1032962,1033491,530

1034344,1038798,4455

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_010950 - 9 TCTGCCGTCATGAATCGAGA

1140934,1140980,47,END:Starts:1139252-1139194-1139043-

1141149,1141231,83,EXACT,AG-GT

1141757,1141834,78,EXACT,AG-GT

1142150,1142276,127,EXACT,AG-GT

1142468,1142681,214,EXACT,AG-GT

1142995,1143316,322,EXACT,AG-GT

1143703,1143890,188,EXACT,AG-GT

1144250,1144780,531,EXACT,AG-GT

1145388,1145711,324,START:Ends:1145826-1145816-1145812-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_011020 - 9 ATTCGTGCGATGCCTCCTCT

1186957,1187042,86

1187844,1187906,63

1188475,1188735,261

1189323,1189625,303

1190072,1190404,333

1191562,1191681,120

1192685,1192813,129

1193404,1193595,192

1193711,1193891,181

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_011050 - 3 CAAAGAGATATGTGGGGGCA

1225055,1225226,172

1225388,1225520,133

1225583,1225814,232

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_011100 + 1 CAAGAACCCATGGCGAAAAT

1266097,1266714,618

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_011200 + 3 CTGTTGTACATGGCTGACAC

1363175,1363580,406,END:EXACT

1363974,1364132,159,EXACT,AG

1364651,1364961,311

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_011210 - 16 GGCCTGTCGATGGAGACGGG

1365848,1365987,140,END:Starts:1365521-1365507-1363982-

1366270,1366480,211,EXACT,AG-GT

1366785,1366957,173,EXACT,ATG:AG-GT

1367326,1367686,361,EXACT,AG-GT
 1368012,1368257,246,EXACT,AG-GT
 1368771,1368968,198,EXACT,AG-GT
 1369106,1369305,200,EXACT,AG-GT
 1369924,1370042,119,START: end 22 AG-GT
 1370630,1370741,112,START: end 413 AG
 1370980,1371154,175,END: start -350 AG
 1371650,1371793,144,START: end 301 AG-GT
 1371846,1372092,247,OVER: start -196 and end 2 AG-GT
 1372567,1372774,208,END: start -2 AG-GT
 1373515,1373862,348,EXACT,AG-GT
 1374462,1374515,54,START: end 131 GT
 1374563,1374587,25,OVER:Ends:1374525-1374646-

>> RNA-Seq evidence = 14/16 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_011240 + 4 GTGCGTGAAATGCAGTCCGC

1386018,1386322,305

1386874,1386952,79

1387400,1387529,130

1387873,1388129,257

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_011305 - 1 TTCTGCGCAATGACGACATC

1442769,1443926,1158

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_011310 - 2 ATGGCCGAGATGCCGCTCTC

1454943,1455210,268

1455676,1456589,914

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_011400 - 27 TTTTCCGAGATGAGCAGTCG

1529081,1529432,352,END:EXACT

1529898,1529945,48,EXACT,AG-GT

1530456,1530655,200,EXACT,AG-GT

1531323,1531455,133,EXACT,AG-GT

1531968,1532106,139,EXACT,GT

1532651,1532790,140,EXACT,AG

1533303,1533411,109,EXACT,AG-GT

1533576,1533776,201,START: end -7 GT

1534092,1534187,96

1534572,1534679,108

1535387,1535552,166,EXACT,AG

1535936,1536159,224,EXACT,GT

1536940,1537027,88

1537501,1537601,101,EXACT,AG

1537944,1538052,109,EXACT,AG-GT

1538407,1538504,98,EXACT,AG-GT

1539086,1539234,149,EXACT,AG-GT

1539520,1539605,86,EXACT,AG-GT

1540284,1540390,107,EXACT,ATG:AG-GT

1540884,1541052,169,START: end -12 GT

1541488,1541637,150,END: start 6 AG
 1542037,1542123,87,EXACT,AG-GT
 1542615,1542791,177,START: end 2 GT
 1543207,1543334,128,END: start 15 AG
 1543774,1543858,85,EXACT,AG-GT
 1544145,1544393,249,EXACT,AG-GT
 1544639,1545124,486,START:Ends:1546720-1546509-

>> RNA-Seq evidence = 24/27 (88.9%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_011400 - 27 TTTTCCGAGATGAGCAGTCG IV [CT]..ATG[ACT]

1545662,1546509,848,5' UTR
 1544639,1545661,1023,GT,START:Ends:1546720-1546509-,Old end=1545124
 1544145,1544393,249,INTERNAL,EXACT,AG-GT
 1543774,1543858,85,INTERNAL,EXACT,AG-GT
 1543207,1543334,128,INTERNAL,END: start 15 AG
 1542615,1542791,177,INTERNAL,START: end 2 GT
 1542037,1542123,87,INTERNAL,EXACT,AG-GT
 1541488,1541637,150,INTERNAL,END: start 6 AG
 1540884,1541052,169,INTERNAL,START: end -12 GT
 1540284,1540390,107,INTERNAL,EXACT,ATG:AG-GT
 1539520,1539605,86,INTERNAL,EXACT,AG-GT
 1539086,1539234,149,INTERNAL,EXACT,AG-GT
 1538407,1538504,98,INTERNAL,EXACT,AG-GT
 1537944,1538052,109,INTERNAL,EXACT,AG-GT
 1537501,1537601,101,INTERNAL,EXACT,AG
 1536940,1537027,88,INTERNAL,
 1535936,1536159,224,INTERNAL,EXACT,GT
 1535387,1535552,166,INTERNAL,EXACT,AG

1534572,1534679,108,INTERNAL,
1534092,1534187,96,INTERNAL,
1533576,1533776,201,INTERNAL,START: end -7 GT
1533303,1533411,109,INTERNAL,EXACT,AG-GT
1532651,1532790,140,INTERNAL,EXACT,AG
1531968,1532106,139,INTERNAL,EXACT,GT
1531323,1531455,133,INTERNAL,EXACT,AG-GT
1530456,1530655,200,INTERNAL,EXACT,AG-GT
1529898,1529945,48,INTERNAL,EXACT,AG-GT
1529081,1529432,352,AG,END:EXACT,Old start=1529081 (+ 1000)
1528081,1529082,1000,3' UTR
Leaky:ID=NCLIV_011400 - 27 TTTTCCGAGATGAGCAGTCG IV
CGAGATGA
1545125,1546509,1385,5' UTR
1544639,1545124,486,GT,START:Ends:1546720-1546509-,Old end=1545124
1544145,1544393,249,INTERNAL,EXACT,AG-GT
1543774,1543858,85,INTERNAL,EXACT,AG-GT
1543207,1543334,128,INTERNAL,END: start 15 AG
1542615,1542791,177,INTERNAL,START: end 2 GT
1542037,1542123,87,INTERNAL,EXACT,AG-GT
1541488,1541637,150,INTERNAL,END: start 6 AG
1540884,1541052,169,INTERNAL,START: end -12 GT
1540284,1540390,107,INTERNAL,EXACT,ATG:AG-GT
1539520,1539605,86,INTERNAL,EXACT,AG-GT
1539086,1539234,149,INTERNAL,EXACT,AG-GT
1538407,1538504,98,INTERNAL,EXACT,AG-GT
1537944,1538052,109,INTERNAL,EXACT,AG-GT
1537501,1537601,101,INTERNAL,EXACT,AG
1536940,1537027,88,INTERNAL,
1535936,1536159,224,INTERNAL,EXACT,GT

1535387,1535552,166,INTERNAL,EXACT,AG
 1534572,1534679,108,INTERNAL,
 1534092,1534187,96,INTERNAL,
 1533576,1533776,201,INTERNAL,START: end -7 GT
 1533303,1533411,109,INTERNAL,EXACT,AG-GT
 1532651,1532790,140,INTERNAL,EXACT,AG
 1531968,1532106,139,INTERNAL,EXACT,GT
 1531323,1531455,133,INTERNAL,EXACT,AG-GT
 1530456,1530655,200,INTERNAL,EXACT,AG-GT
 1529898,1529945,48,INTERNAL,EXACT,AG-GT
 1529081,1529432,352,AG,END:EXACT,Old start=1529081 (+ 1000)
 1528081,1529082,1000,3' UTR

#####

ID=NCLIV_011420 - 7 CCACTTGAGTTGAAATGTTC

1554010,1554359,350,END:Starts:1553944-1553960-1553975-
 1554472,1554509,38,EXACT,AG-GT
 1554623,1554804,182,EXACT,AG-GT
 1554959,1555066,108,EXACT,AG-GT
 1555194,1555385,192,EXACT,AG-GT
 1555573,1555720,148,START: end -40 AG-GT
 1555974,1556128,155,START:EXACT

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = 237843988 0.0 59.6 84.96 992 Toxoplasma gondii ME49 S1
 RNA-binding domain containing protein

#####

ID=NCLIV_011460 - 3 CACGTGGGTATGCGCGGGAA

1586843,1588245,1403,OVER:Starts:1583130-1583078-
 1588789,1589197,409,END: start -5711 AG
 1589844,1590146,303,START:EXACT

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_011460 - 3 CACGTGGGTATGCGCGGGAA IV A..ATG

1590864,1591146,283,5' UTR

1589844,1590863,1020,GT,START:EXACT,Old end=1590146 (-1000)

1588789,1589197,409,INTERNAL,END: start -5711 AG

1586843,1588245,1403,AG,OVER:Starts:1583130-1583078-,Old start=1586843

1583078,1586844,3765,3' UTR

#####

ID=NCLIV_011500 + 1 AAGCGTCCGATGGCACC GTT

1619047,1621869,2823

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_011580 - 10 TGCGTTCCGATGGCGAGTGA

1671620,1671761,142,END:EXACT

1672139,1672363,225,EXACT,AG-GT

1673098,1673662,565,EXACT,AG-GT

1674198,1674284,87,EXACT,AG-GT

1674808,1674982,175,EXACT,AG-GT

1675664,1675737,74,EXACT,AG-GT

1676158,1676832,675,EXACT,AG-GT

1677324,1677383,60,EXACT,AG-GT

1677819,1677908,90,EXACT,AG-GT

1678716,1679667,952,START:Ends:1680538-1680540-1680503-

>> RNA-Seq evidence = 10/10 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_011580 - 10 TGC GTTCCGATGGCGAGTGA IV [CT]..ATG[ACT]

1679962,1680503,542,5' UTR

1678716,1679961,1246,GT,START:Ends:1680538-1680540-1680503-,Old end=1679667

1677819,1677908,90,INTERNAL,EXACT,AG-GT

1677324,1677383,60,INTERNAL,EXACT,AG-GT

1676158,1676832,675,INTERNAL,EXACT,AG-GT

1675664,1675737,74,INTERNAL,EXACT,AG-GT

1674808,1674982,175,INTERNAL,EXACT,AG-GT

1674198,1674284,87,INTERNAL,EXACT,AG-GT

1673098,1673662,565,INTERNAL,EXACT,AG-GT

1672139,1672363,225,INTERNAL,EXACT,AG-GT

1671620,1671761,142,AG,END:EXACT,Old start=1671620 (+ 1000)

1670620,1671621,1000,3' UTR

Leaky:ID=NCLIV_011580 - 10 TGC GTTCCGATGGCGAGTGA IV TCCGATGG

1679668,1680503,836,5' UTR

1678716,1679667,952,GT,START:Ends:1680538-1680540-1680503-,Old end=1679667

1677819,1677908,90,INTERNAL,EXACT,AG-GT

1677324,1677383,60,INTERNAL,EXACT,AG-GT

1676158,1676832,675,INTERNAL,EXACT,AG-GT

1675664,1675737,74,INTERNAL,EXACT,AG-GT

1674808,1674982,175,INTERNAL,EXACT,AG-GT

1674198,1674284,87,INTERNAL,EXACT,AG-GT

1673098,1673662,565,INTERNAL,EXACT,AG-GT

1672139,1672363,225,INTERNAL,EXACT,AG-GT

1671620,1671761,142,AG,END:EXACT,Old start=1671620 (+ 1000)

1670620,1671621,1000,3' UTR

#####

ID=NCLIV_011590 + 11 TTCTTCCTCATGGCAAATCG

1681528,1681646,119,END:Starts:1680788-1680810-
 1682003,1682079,77,EXACT,AG-GT
 1682364,1682455,92,START: end -27 AG-GT
 1683121,1683348,228,END: start 1 GT
 1683619,1683718,100,END: start 64 AG
 1684127,1684151,25
 1684643,1684793,151,START: end -2 AG
 1685448,1685493,46
 1685882,1686080,199
 1686458,1686522,65
 1686797,1686936,140

>> RNA-Seq evidence = 6/11 (54.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_011600 + 3 GTTAGAGATATGACGTGGGC
 1700230,1700404,175
 1700905,1701048,144
 1701768,1702054,287

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_011650 + 7 TCTCGTGGGATGCCACTCGT
 1745118,1745138,21,OVER:Starts:1744044-1744283-
 1745759,1746098,340,END: start -1476 GT
 1746666,1746884,219,EXACT,AG-GT
 1747419,1747620,202,EXACT,AG-GT
 1747807,1747918,112,EXACT,AG-GT
 1748351,1748490,140,EXACT,AG-GT

1748820,1748931,112,START:Ends:1751361-1750383-1752987-

>> RNA-Seq evidence = 6/7 (85.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_011650 + 7 TCTCGTGGGATGCCACTCGT IV A..ATG

1744283,1745087,805,5' UTR

1745088,1745138,51,GT,OVER:Starts:1744044-1744283-,Old start=1745118

1745759,1746098,340,INTERNAL,END: start -1476 GT

1746666,1746884,219,INTERNAL,EXACT,AG-GT

1747419,1747620,202,INTERNAL,EXACT,AG-GT

1747807,1747918,112,INTERNAL,EXACT,AG-GT

1748351,1748490,140,INTERNAL,EXACT,AG-GT

1748820,1748931,112,AG,START:Ends:1751361-1750383-1752987-,Old end=1748931

1748932,1752987,4056,3' UTR

#####

ID=NCLIV_011740 + 5 CCTGTTGCAATGTCTTCCTC

1813969,1814026,58,END:Starts:1813662-1813637-1813677-

1814583,1814845,263,EXACT,AG-GT

1815535,1815823,289,EXACT,AG-GT

1816213,1816313,101,EXACT,ATG:AG-GT

1816671,1816817,147,START:Ends:1818761-1818800-1818799-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_011740 + 5 CCTGTTGCAATGTCTTCCTC IV [CT]..ATG[ACT]

1813677,1813692,16,5' UTR

1813693,1814026,334,GT,END:Starts:1813662-1813637-1813677-,Old start=1813969

1814583,1814845,263,INTERNAL,EXACT,AG-GT

1815535,1815823,289,INTERNAL,EXACT,AG-GT

1816213,1816313,101,INTERNAL,EXACT,ATG:AG-GT

1816671,1816817,147,AG,START:Ends:1818761-1818800-1818799-,Old end=1816817

1816818,1818800,1983,3' UTR

Leaky:ID=NCLIV_011740 + 5 CCTGTTGCAATGTCTTCCTC IV TGCAATGT

1813677,1813968,292,5' UTR

1813969,1814026,58,GT,END:Starts:1813662-1813637-1813677-,Old start=1813969

1814583,1814845,263,INTERNAL,EXACT,AG-GT

1815535,1815823,289,INTERNAL,EXACT,AG-GT

1816213,1816313,101,INTERNAL,EXACT,ATG:AG-GT

1816671,1816817,147,AG,START:Ends:1818761-1818800-1818799-,Old end=1816817

1816818,1818800,1983,3' UTR

#####

ID=NCLIV_011750 + 5 GTGGCGGCAATGAGCTTGCG

1821474,1821630,157,END:Starts:1821463-1821394-

1822096,1822238,143,END: start -20 GT

1822589,1822663,75,EXACT,AG-GT

1822954,1823005,52,EXACT,AG-GT

1823736,1823785,50,START:Ends:1824121-1824175-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_011760 - 8 TGTAACGCCATGCCGCCCGG

1826193,1826339,147,END:Starts:1824812-1824789-1824666-

1826821,1826970,150,EXACT,AG-GT

1827892,1828036,145,EXACT,AG-GT

1828445,1828607,163,EXACT,AG-GT

1829219,1829309,91,START: end -10 GT

1829909,1829992,84,END: start -2 AG

1830260,1830380,121,EXACT,AG-GT

1830914,1831350,437,START:Ends:1832241-1831920-

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_011870 - 7 TTTT TAGCGATGCTCGACTG

1907338,1908510,1173,END:Starts:1906487-1906476-1906350-

1909332,1909448,117,EXACT,AG-GT

1910166,1910229,64,EXACT,AG-GT

1910815,1910923,109,EXACT,AG-GT

1911670,1911764,95,EXACT,TAG|TGA|TAA:AG-GT

1912131,1912201,71,EXACT,AG-GT

1912756,1912836,81,START:EXACT

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_011930 + 12 TC TTTGGGCATGAGCCTCTG

1959163,1959673,511

1961196,1962353,1158,END: start -32 GT (ref:AG-GT)<< Possible error

1963277,1963425,149,EXACT,AG-GT

1963683,1963768,86,START: end 138 AG

1964358,1964664,307,END: start -212 GT (ref:AG-GT)<< Possible error

1964975,1965087,113,EXACT,AG-GT

1965406,1966466,1061,EXACT,AG-GT

1966821,1967001,181,EXACT,AG-GT

1967454,1967530,77,EXACT,AG-GT

1968057,1968255,199,EXACT,AG-GT

1968752,1968830,79,EXACT,AG-GT

1969356,1969466,111,START:Ends:1969717-1978639-1978722-

>> RNA-Seq evidence = 11/12 (91.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_012010 + 1 GTTGAAGAGATGTGTCGAGG
2045061,2047382,2322

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_012020 + 1 GTTGAAGAGATGCGTCGAGG
2058210,2061092,2883

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_012060 - 12 GTCACAGCAATGCATTCTC
2104965,2105099,135
2105154,2105234,81
2105295,2105345,51
2105402,2105449,48
2105510,2105557,48
2105608,2105639,32
2105700,2105769,70
2105826,2105911,86
2105968,2106003,36
2106058,2106148,91
2106210,2106290,81
2106346,2106558,213

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_012070 + 3 TTTTCCGCGATGATTCCTTC

2107875,2108487,613,END:Starts:2107254-2107260-2107324-

2108895,2109283,389,END: start -147 AG-GT (ref:AG-GT)<< Possible error

2110297,2110323,27,OVER:Ends:2111783-2111757-2112584-

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = 237843866 0.0 49.5 86.08 662 Toxoplasma gondii ME49
hypothetical protein

>> Alternative start codon

ID=NCLIV_012070 + 3 TTTTCCGCGATGATTCCTTC IV [CT]..ATG[ACT]

2107324,2107619,296,5' UTR

2107620,2108487,868,GT,END:Starts:2107254-2107260-2107324-,Old start=2107875

2108895,2109283,389,INTERNAL,END: start -147 AG-GT (ref:AG-GT)<< Possible error

2110297,2110323,27,AG,OVER:Ends:2111783-2111757-2112584-,Old end=2110323

2110324,2112584,2261,3' UTR

Leaky:ID=NCLIV_012070 + 3 TTTTCCGCGATGATTCCTTC IV CGCCATGT

2107324,2107640,317,5' UTR

2107641,2108487,847,GT,END:Starts:2107254-2107260-2107324-,Old start=2107875

2108895,2109283,389,INTERNAL,END: start -147 AG-GT (ref:AG-GT)<< Possible error

2110297,2110323,27,AG,OVER:Ends:2111783-2111757-2112584-,Old end=2110323

2110324,2112584,2261,3' UTR

#####

ID=NCLIV_012080 - 1 GCGTCGCTGATGGACTCACT

2113171,2114790,1620

>> RNA-Seq evidence = NONE

>> Homology evidence = 237843864 0.0 73.6 78.55 1020 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_012110 + 1 GGACTCCTGATGGAACCACG
2174034,2175254,1221

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_012150 - 15 GTCGTGTGAATGGGGTGAC
2215527,2215670,144

2215982,2216071,90,END: start 24 AG-GC (ref:AC-GT)<< Possible error

2216517,2216655,139,EXACT,AG-GT

2217067,2217160,94,EXACT,AG-GT

2217564,2217651,88,EXACT,ATG:AG-GT

2218190,2218281,92,EXACT,AG-GT

2218810,2218970,161,EXACT,AG-GT

2219479,2219560,82,END: start -78 AG-GC (ref:AC-GT)<< Possible error

2219829,2220009,181,START: end -59 GT

2220273,2220324,52,END: start 23 AG-GC (ref:AC-GT)<< Possible error

2220883,2221189,307,EXACT,AG-GT

2221894,2222220,327,EXACT,AG-GT

2222809,2222962,154,START: end 1 GT

2223600,2224803,1204,END: start 731 AG

2225405,2225859,455,START:Ends:2227303-2225773-

>> RNA-Seq evidence = 14/15 (93.3%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_012150 - 15 GTCGTGTGAATGGGGTGAC IV A..ATG

2225464,2225773,310,5' UTR
 2225405,2225463,59,GT,START:Ends:2227303-2225773-,Old end=2225859
 2223600,2224803,1204,INTERNAL,END: start 731 AG
 2222809,2222962,154,INTERNAL,START: end 1 GT
 2221894,2222220,327,INTERNAL,EXACT,AG-GT
 2220883,2221189,307,INTERNAL,EXACT,AG-GT
 2220273,2220324,52,INTERNAL,END: start 23 AG-GC (ref:AC-GT)<< Possible error
 2219829,2220009,181,INTERNAL,START: end -59 GT
 2219479,2219560,82,INTERNAL,END: start -78 AG-GC (ref:AC-GT)<< Possible error
 2218810,2218970,161,INTERNAL,EXACT,AG-GT
 2218190,2218281,92,INTERNAL,EXACT,AG-GT
 2217564,2217651,88,INTERNAL,EXACT,ATG:AG-GT
 2217067,2217160,94,INTERNAL,EXACT,AG-GT
 2216517,2216655,139,INTERNAL,EXACT,AG-GT
 2215982,2216071,90,INTERNAL,END: start 24 AG-GC (ref:AC-GT)<< Possible error
 2215527,2215670,144,AG,,Old start=2215527 (+ 1000)
 2214527,2215528,1000,3' UTR

#####

ID=NCLIV_012180 - 3 CAACTCGTTATGCTGGCGAA

2263613,2263652,40,END:Starts:2262690-2262399-2262907-
 2264197,2264297,101,START: end 546 AG-GT (ref:AC-GT)<< Possible error
 2265366,2266979,1614,START:Ends:2268977-2268869-2267603-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_012190 - 13 TCTTTGGAGATGAGCAGAAA

2271536,2271740,205,END:Starts:2271471-2270434-
 2272348,2272498,151,EXACT,AG-GT
 2273132,2273321,190,EXACT,GT

2273905,2274090,186
 2275152,2275455,304
 2276227,2276444,218
 2276783,2276875,93
 2277276,2277485,210
 2277924,2278032,109
 2278329,2278480,152
 2279107,2279564,458
 2279819,2280689,871,END: start 310 AG
 2281019,2281579,561

>> RNA-Seq evidence = 4/13 (30.8%)

>> Homology evidence = NONE

#####

ID=NCLIV_012200 - 1 GATGAAGAGATGCATCGAGG
 2301785,2304604,2820

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_012210 - 1 ACCCAGCGTATGGCGTCAAA
 2315356,2317245,1890

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

*** **CHROMOSOME V**

#####

ID=NCLIV_012260 - 1 CGCCCGCCAATGGACTTGGG
33718,42534,8817

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_012300 - 10 GAATGGCAGATGGAAGAAAG
61040,61183,144,END:Starts:59500-59509-
61374,61478,105,EXACT,AG-GT
61712,61975,264,START: end 145 GT
62398,62778,381,END: start 1 AG (ref:AC-GT)<< Possible error
63502,63588,87,EXACT,ATG:AG-GT
64161,64211,51,EXACT,AG-GT
64980,65056,77,START: end 1 GT
65536,65605,70
66264,66333,70
66590,66978,389,OVER:Starts:70927-66501-

>> RNA-Seq evidence = 7/10 (70.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_012320 - 6 GCTCCCGCCATGTCTTTCGC
73893,73962,70,END:Starts:70927-66501-
74388,74490,103,EXACT,AG-GT
74823,74882,60,EXACT,AG-GT
75292,75389,98,EXACT,AG-GT
75607,76255,649,EXACT,GT
76677,77292,616

>> RNA-Seq evidence = 5/6 (83.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_012360 - 9 GCTGTAGCAATGCCAAGAAG

101046,101152,107,END:Starts:98307-100191-98068-

101377,102179,803,EXACT,AG-GT

102918,103000,83,START: end 2 GT

103635,104253,619,END: start -153 GT

104916,105063,148,EXACT,TAG|TGA|TAA:AG-GT

105529,105696,168,START: end 1207 AG-GT

106207,106903,697,END: start -678 AG-GT

107337,107645,309,EXACT,AG-GT

108403,108999,597,START:Ends:110217-109478-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_012360 - 9 GCTGTAGCAATGCCAAGAAG V [CT]..ATG[ACT]

109078,109478,401,5' UTR

108403,109077,675,GT,START:Ends:110217-109478-,Old end=108999

107337,107645,309,INTERNAL,EXACT,AG-GT

106207,106903,697,INTERNAL,END: start -678 AG-GT

105529,105696,168,INTERNAL,START: end 1207 AG-GT

104916,105063,148,INTERNAL,EXACT,TAG|TGA|TAA:AG-GT

103635,104253,619,INTERNAL,END: start -153 GT

102918,103000,83,INTERNAL,START: end 2 GT

101377,102179,803,INTERNAL,EXACT,AG-GT

101046,101152,107,AG,END:Starts:98307-100191-98068-,Old start=101046

98068,101047,2978,3' UTR

Leaky:ID=NCLIV_012360 - 9 GCTGTAGCAATGCCAAGAAG V
AGCAATGC

109000,109478,479,5' UTR
 108403,108999,597,GT,START:Ends:110217-109478-,Old end=108999
 107337,107645,309,INTERNAL,EXACT,AG-GT
 106207,106903,697,INTERNAL,END: start -678 AG-GT
 105529,105696,168,INTERNAL,START: end 1207 AG-GT
 104916,105063,148,INTERNAL,EXACT,TAG|TGA|TAA:AG-GT
 103635,104253,619,INTERNAL,END: start -153 GT
 102918,103000,83,INTERNAL,START: end 2 GT
 101377,102179,803,INTERNAL,EXACT,AG-GT
 101046,101152,107,AG,END:Starts:98307-100191-98068-,Old start=101046
 98068,101047,2978,3' UTR

#####

ID=NCLIV_012430 - 7 GTCTTGCAAATGGAACATTT

151904,151991,88,END:Starts:151007-151256-151263-
 152646,153163,518,START: end 61 GT
 153992,154209,218,EXACT,AG-GT
 154975,155155,181,EXACT,TAG|TGA|TAA:AG-GT
 155638,156395,758,EXACT,AG-GT
 156638,156816,179,EXACT,AG-GT
 157528,159116,1589,START:Ends:160810-159256-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_012450 - 1 CGGAGATGCATGGTTTTTCT

171450,172679,1230,OVER:Ends:168749-174004-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_012470 + 13 AAGCACGACATGCGACTC
 195052,195074,23,OVER:Starts:194030-194195-194525-
 195807,196167,361,END: start -1612 GT (ref:AG-GT)<< Possible error
 196736,197062,327,EXACT,AG-GT
 197513,198261,749,EXACT,AG-GT
 198621,198685,65,EXACT,AG-GT
 198949,199679,731,EXACT,AG-GT
 200082,200243,162,START: end 430 GT
 200511,200673,163,END: start -429 GT
 201132,201249,118,EXACT,AG-GT
 201399,201486,88,EXACT,AG-GT
 202044,202209,166,EXACT,AG-GT
 203124,203967,844,OVER: start -255 and end 518 AG
 204042,204111,70,OVER:Ends:204655-202948-204485-

>> RNA-Seq evidence = 10/13 (76.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_012480 + 1 GCAGCAGAGATGTTTACGCG
 207584,211126,3543

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_012680 + 10 TTCTTGGCAATGACGGCACC
 367750,367977,228
 368797,369223,427,END: start 254 GT
 369735,369933,199,EXACT,AG
 370353,371618,1266
 371838,372141,304

372397,376045,3649

376295,376731,437

377282,378202,921,END: start 577 GT

378848,383127,4280,START: end -3830 AG

383437,385549,2113

>> RNA-Seq evidence = 4/10 (40.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_012720 + 4 TCCGATCACATGGCCCCTGT

434928,435244,317

435914,436074,161

436390,437609,1220

438194,440122,1929

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_012730 - 10 CGCTTCTCAATGGCCCGCAA

441794,441872,79

442539,442663,125

443193,443316,124

444129,444217,89

444663,445058,396

445570,445644,75

445971,446064,94

446412,446533,122

449662,449823,162

451239,451361,123

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_012740 + 4 CCTGTCGGCATGCCGGCTGC

454481,454782,302

455425,455890,466

456095,456541,447

457401,457874,474

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_012820 - 29 GGGACCGAGATGCGGCAGGA

519577,519731,155

520252,520516,265

520982,521257,276

522120,522311,192

522515,522686,172

523287,523363,77

523746,523791,46

524343,524428,86

524793,524831,39

525360,525461,102

525906,525989,84

526656,526760,105

527395,527472,78

528456,528495,40

528614,528687,74

529882,530139,258

530315,530433,119

530541,530681,141
 530813,531131,319
 532387,532525,139
 532581,532668,88
 532736,532838,103
 533456,533500,45
 535320,535436,117,EXACT,AG-GT
 535954,536040,87,EXACT,AG-GT
 536236,536695,460,START: end -17 GT
 538068,538241,174
 538504,538652,149
 538833,539369,537

>> RNA-Seq evidence = 3/29 (10.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_012850 - 6 AGCAAGTCAATGGTCAGATC

552783,552856,74,END:Starts:551951-551957-

552970,553040,71,EXACT,AG-GT

553964,554048,85

554732,554911,180

555222,555362,141

555676,556132,457

>> RNA-Seq evidence = 2/6 (33.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_012970 + 4 CTCTCTGAGATGACAGGTCC

710394,711041,648,END:Starts:710270-710281-710254-

711234,711368,135,EXACT,AG-GT

712090,712325,236,EXACT,AG-GT

712995,713208,214,START:Ends:713915-713933-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_013000 - 1 CACCCCGATATGACGGCAGC

751697,755392,3696

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_013010 - 12 GCAGTCTCAATGGCTTCTTC

757751,757768,18

757823,757919,97

757977,758061,85

758121,758252,132

758309,758336,28

758403,758449,47

758504,758570,67

758628,758712,85

758769,758821,53

758883,758955,73

759011,759035,25

759095,759179,85

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_013020 + 4 GGTGCAGCAATGTCTTTCCT

759931,760263,333,END:EXACT
760733,760818,86,EXACT,AG-GT
760995,761052,58,EXACT,AG-GT
761151,761270,120,START:Ends:761882-761216-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_013030 - 4 GAACAAGCAATGCCTTACCT

761832,761891,60,END:Starts:759710-761173-761083-

762031,762352,322,EXACT,AG-GT

762639,762748,110,EXACT,AG-GT

763217,763300,84,START:EXACT

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_013090 - 2 GTCAAAGAAATGTCCCAGAG

799856,800664,809

801273,802032,760

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_013240 - 2 CACTCCTGGATGGCGATTAC

942496,942703,208

943233,944200,968

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_013290 - 4 ACGCCGCCTATGGAGACGCG

991906,992355,450,END:Starts:991061-990929-990957-

992961,994500,1540,START: end -741 GT

995011,996706,1696,START: end 229 GT

999769,999784,16

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_013300 + 7 TTCTTAGGGATGAACTTTGT

1004515,1004675,161,END:EXACT

1004995,1005064,70,EXACT,AG-GT

1005636,1005812,177,EXACT,AG

1007350,1008025,676,START: end 1089 GT

1008497,1012773,4277,END: start 857 AG-GT (ref:AG-GT)<< Possible error

1013079,1013248,170,END: start 57 AG-GT (ref:AG-GT)<< Possible error

1013714,1013747,34

>> RNA-Seq evidence = 6/7 (85.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_013300 + 7 TTCTTAGGGATGAACTTTGT V [CT]..ATG[ACT]

1003515,1004343,829,5' UTR

1004344,1004675,332,GT,END:EXACT,Old start=1004515 (+ 1000)

1004995,1005064,70,INTERNAL,EXACT,AG-GT

1005636,1005812,177,INTERNAL,EXACT,AG

1007350,1008025,676,INTERNAL,START: end 1089 GT

1008497,1012773,4277,INTERNAL,END: start 857 AG-GT (ref:AG-GT)<< Possible error

1013079,1013248,170,INTERNAL,END: start 57 AG-GT (ref:AG-GT)<< Possible error

1013714,1013747,34,AG,,Old end=1013747 (-1000)

1013748,1014747,1000,3' UTR

Leaky:ID=NCLIV_013300 + 7 TTCTTAGGGATGAACTTTGT V
AGGGATGA

1003515,1004514,1000,5' UTR

1004515,1004675,161,GT,END:EXACT,Old start=1004515 (+ 1000)

1004995,1005064,70,INTERNAL,EXACT,AG-GT

1005636,1005812,177,INTERNAL,EXACT,AG

1007350,1008025,676,INTERNAL,START: end 1089 GT

1008497,1012773,4277,INTERNAL,END: start 857 AG-GT (ref:AG-GT)<< Possible error

1013079,1013248,170,INTERNAL,END: start 57 AG-GT (ref:AG-GT)<< Possible error

1013714,1013747,34,AG,,Old end=1013747 (-1000)

1013748,1014747,1000,3' UTR

#####

ID=NCLIV_013310 - 8 GAAACTTCGATGGCGCCTTC

1016023,1016315,293,END:Starts:1014876-1015791-1015051-

1016558,1017143,586,EXACT,AG-GT

1017384,1017687,304

1017817,1018059,243

1018190,1018571,382

1018893,1019313,421

1019425,1019696,272

1019893,1020349,457

>> RNA-Seq evidence = 2/8 (25.0%)

>> Homology evidence = 237843550 0.0 100.2 83.31 2569 Toxoplasma gondii ME49
glucose-methanol-choline oxidoreductase domain-containing protein

#####

ID=NCLIV_013350 + 2 ACTCTTGCAATGCCTCGTCC

1044456,1047648,3193,END:Starts:1047139-1047242-

1047788,1049094,1307,START:Ends:1048027-1049142-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_013350 + 2 ACTCTTGCAATGCCTCGTCC V [CT]..ATG[ACT]

1047242,1047312,71,5' UTR

1047313,1047648,336,GT,END:Starts:1047139-1047242-,Old start=1044456

1047788,1047928,141,AG,START:Ends:1048027-1049142-,Old end=1049094

1047929,1049142,1214,3' UTR

Leaky:ID=NCLIV_013350 + 2 ACTCTTGCAATGCCTCGTCC V
[CT]..ATG[ACT]

1047242,1047417,176,5' UTR

1047418,1047648,231,GT,END:Starts:1047139-1047242-,Old start=1044456

1047788,1047928,141,AG,START:Ends:1048027-1049142-,Old end=1049094

1047929,1049142,1214,3' UTR

#####

ID=NCLIV_013440 + 7 CCGAGACAGATGGCTCTTCC

1126900,1127293,394,END:Starts:1125864-1125859-

1127886,1127950,65

1128445,1128719,275

1129209,1129390,182

1129661,1130552,892,END: start 1 GT

1130803,1130965,163,EXACT,AG-GT

1131199,1131249,51,START:EXACT

>> RNA-Seq evidence = 4/7 (57.1%)

>> Homology evidence = NONE

#####

ID=NCLIV_013450 - 20 GCTCGAGCAATGCAAGCGAT

1132545,1132631,87,END:Starts:1131198-1130806-1131321-

1132972,1133194,223,START: end -67 GT
 1134283,1134319,37,EXACT,AG-GT
 1134702,1134849,148,END: start -215 AG-GT
 1135134,1135217,84,EXACT,AG-GT
 1135573,1135653,81,EXACT,AG-GT
 1136516,1136575,60,START: end -8 GT
 1136929,1137036,108
 1137268,1137295,28
 1138617,1138723,107
 1139495,1139629,135
 1139867,1139944,78
 1140690,1140782,93
 1141357,1141427,71
 1141824,1141968,145
 1142403,1142510,108
 1142745,1142906,162
 1143407,1143644,238
 1144248,1144278,31
 1144544,1144565,22

>> RNA-Seq evidence = 7/20 (35.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_013580 - 11 CGGCTGTTGATGGGTCGGGA

1234728,1234816,89
 1235399,1235558,160
 1236218,1236364,147
 1236961,1237173,213
 1237624,1237718,95
 1241382,1241724,343

1242381,1242454,74

1242715,1242938,224

1243282,1243450,169

1244296,1244448,153

1244958,1245099,142

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_013680 - 10 GAAGCCGCCATGACAGGGGT

1298609,1299592,984,END:Starts:1298013-1298035-

1300101,1300194,94,EXACT,AG-GT

1300860,1301077,218,START: end -3 GT

1301516,1301560,45

1302314,1302387,74,END: start -108 AG

1302715,1302749,35,EXACT,AG-GT

1303374,1303432,59,EXACT,AG-GT

1304540,1304877,338,END: start -2 AG

1305158,1305467,310,EXACT,AG-GT

1305975,1307357,1383,START:Ends:1306523-1306452-

>> RNA-Seq evidence = 9/10 (90.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_013820 - 9 GCTATCGTCATGTTTCAGAGA

1420237,1420340,104,END:Starts:1418308-1419674-1418343-

1420881,1421116,236,START: end -2 AG-GT

1421662,1421762,101,START: end 156 Code:NONE-INTERNAL-

1422638,1422786,149,EXACT,AG-GT

1423218,1423480,263,EXACT,AG-GT

1424151,1424322,172,EXACT,AG-GT
 1424857,1425127,271,EXACT,AG-GT
 1425536,1425692,157,EXACT,AG-GT
 1426107,1426393,287,START:Ends:1426374-1426379-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_013820 - 9 GCTATCGTCATGTTTCAGAGA V [CT]..ATG[ACT]

1426337,1426374,38,5' UTR
 1426107,1426336,230,GT,START:Ends:1426374-1426379-,Old end=1426393
 1425536,1425692,157,INTERNAL,EXACT,AG-GT
 1424857,1425127,271,INTERNAL,EXACT,AG-GT
 1424151,1424322,172,INTERNAL,EXACT,AG-GT
 1423218,1423480,263,INTERNAL,EXACT,AG-GT
 1422638,1422786,149,INTERNAL,EXACT,AG-GT
 1421662,1421762,101,INTERNAL,START: end 156 Code:NONE-INTERNAL-
 1420881,1421116,236,INTERNAL,START: end -2 AG-GT
 1420237,1420340,104,AG,END:Starts:1418308-1419674-1418343-,Old start=1420237
 1418308,1420238,1929,3' UTR

Leaky:ID=NCLIV_013820 - 9 GCTATCGTCATGTTTCAGAGA V
 [CT]..ATG[ACT]

1426193,1426374,182,5' UTR
 1426107,1426192,86,GT,START:Ends:1426374-1426379-,Old end=1426393
 1425536,1425692,157,INTERNAL,EXACT,AG-GT
 1424857,1425127,271,INTERNAL,EXACT,AG-GT
 1424151,1424322,172,INTERNAL,EXACT,AG-GT
 1423218,1423480,263,INTERNAL,EXACT,AG-GT
 1422638,1422786,149,INTERNAL,EXACT,AG-GT
 1421662,1421762,101,INTERNAL,START: end 156 Code:NONE-INTERNAL-

1420881,1421116,236,INTERNAL,START: end -2 AG-GT

1420237,1420340,104,AG,END:Starts:1418308-1419674-1418343-,Old start=1420237

1418308,1420238,1929,3' UTR

#####

ID=NCLIV_013850 - 3 GACACCCGGATGGCTCGGTC

1477927,1477955,29

1478688,1478816,129

1479495,1481616,2122

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_013860 + 8 CAAGCGGCGATGCCGGCGTT

1486541,1486781,241,END:Starts:1484803-1484758-1485556-

1487198,1487903,706,EXACT,AG-GT

1488550,1489228,679,EXACT,AG-GT

1489603,1489823,221,EXACT,AG-GT

1490182,1490317,136,EXACT,AG-GT

1490743,1490830,88,EXACT,AG-GT

1491132,1491251,120,EXACT,AG-GT

1492133,1492281,149

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_013930 - 3 TCTACCGTCATGAGGCGGCA

1533632,1533744,113,END:Starts:1533140-1533115-1533045-

1534281,1534440,160,START: end -60 AG-GT

1534917,1535357,441,START:Ends:1535837-1535841-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_013980 - 1 AGTAGGGGCATGCTTGGATT

1560242,1561618,1377

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_014030 - 7 TGCTTCCTGATGGGCGCCTC

1584504,1584833,330,END:Starts:1584347-1584268-

1585201,1585476,276,EXACT,AG-GT

1585883,1586002,120,EXACT,AG-GT

1586801,1587054,254,EXACT,AG-GT

1587353,1587808,456,EXACT,AG

1588335,1589415,1081,START: end -391 GT

1590018,1592081,2064,START:Ends:1592818-1592139-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_014140 + 6 TCTCCCTCTATGGGGAGTAT

1648486,1648530,45,OVER:Starts:1648234-1648235-

1648552,1648767,216,OVER: start -317 and end 1880 GT

1648828,1649078,251,OVER: start -593 and end 1569 GT

1649510,1649696,187,OVER: start -1275 and end 951 GT

1649808,1650647,840,END: start -1573 GT

1650795,1651535,741,START:Ends:1651985-1653019-

>> RNA-Seq evidence = 2/6 (33.3%)

>> Homology evidence = 237839950 0.0 169.9 91.68 1683 Toxoplasma gondii ME49
cAMP-dependent protein kinase catalytic

#####

ID=NCLIV_014190 - 10 CTTCTCGCCATGCATCTCGC

1670592,1670852,261,END:Starts:1670199-1670272-1670640-

1671385,1671668,284,EXACT,AG-GT

1672039,1672108,70,END: start -104 AG

1672527,1672628,102,EXACT,GT

1673070,1673313,244

1673602,1673951,350,END: start -67 AG

1674761,1674851,91,EXACT,AG-GT

1675381,1676308,928,EXACT,GT

1676464,1678847,2384,WITHIN: start 2225 and end -57 AG

1679020,1679648,629,START:Ends:1680161-1680008-

>> RNA-Seq evidence = 8/10 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_014260 - 9 TTCTCCTTTATGGCGAGCGT

1749128,1749178,51,END:Starts:1747912-1748156-1747871-

1749562,1749640,79,EXACT,AG-GT

1749765,1749829,65,EXACT,AG-GT

1750243,1750299,57,EXACT,AG-GT

1750935,1751002,68,START: end 3 GT

1751510,1751585,76,END: start -1 AG

1752050,1752211,162,EXACT,AG-GT

1753082,1753297,216,EXACT,AG-GT

1753794,1754048,255,START:Ends:1756241-1756002-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_014290 + 5 CCTCTCGCCATGTGGCTCGG

1771799,1777201,5403,WITHIN:Starts:1770715-1775805-1774025-

1777572,1777673,102

1777845,1777920,76,EXACT,AG-GT

1778307,1778388,82,END: start -4 AG-GT

1778706,1781049,2344,OVER:Ends:1781639-1781801-

>> RNA-Seq evidence = 2/5 (40.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_014390 - 6 GATACGGGAATGCCAGCGAG

1851424,1851564,141,END:Starts:1851290-1849999-

1852185,1852529,345,EXACT,AG-GT

1852985,1853241,257,EXACT,AG-GT

1853688,1853905,218,EXACT,AG-GT

1854394,1854899,506,START: end 1064 GT

1855461,1855508,48,OVER:Ends:1855977-1854942-1855963-

>> RNA-Seq evidence = 5/6 (83.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_014420 + 9 CAGTCACAGATGGAGTCCTC

1877854,1878339,486

1878462,1878604,143

1879013,1879109,97

1879505,1879900,396

1880507,1880646,140

1881347,1881498,152

1882052,1882345,294

1882786,1882842,57

1883160,1883344,185

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_014440 + 19 CTCGACGGAATGTTTCCGCG

1891780,1892977,1198,END:EXACT

1893404,1893446,43,EXACT,AG-GT

1894151,1894322,172

1894379,1894495,117,EXACT,AG-GT

1895153,1895425,273,EXACT,AG-GT

1895979,1896051,73,START: end 506 AG

1896692,1896795,104,END: start -4 GT

1897390,1897436,47,EXACT,AG-GT

1897684,1897759,76,START: end -6 AG

1898418,1898475,58

1899068,1899150,83,EXACT,AG-GT

1899591,1899776,186,EXACT,AG-GT

1900173,1900253,81,WITHIN: start 53 and end -1 AG

1901315,1901434,120,EXACT,AG-GT

1901740,1901874,135,EXACT,AG-GT

1902165,1902352,188,EXACT,AG-GT

1902849,1902931,83,EXACT,AG-GT

1903452,1903643,192,EXACT,AG-GT

1904049,1904422,374,START:Ends:1905205-1905182-1905203-

>> RNA-Seq evidence = 16/19 (84.2%)

>> Homology evidence = NONE

#####

ID=NCLIV_014460 + 14 CCAGGGGTCATGTCACAGCA

1918523,1918858,336,END:Starts:1917149-1917159-1917301-

1919213,1919341,129,EXACT,AG-GT

1919961,1920137,177,END: start 24 GT

1920477,1920590,114,EXACT,AG-GT

1921023,1921280,258,EXACT,AG-GT

1921925,1921989,65,EXACT,AG-GT

1922333,1922384,52,EXACT,AG-GT

1922605,1922772,168,EXACT,AG-GT

1923192,1923365,174,EXACT,AG-GT

1923734,1923968,235,EXACT,AG-GT

1924309,1924518,210,EXACT,AG-GT

1925160,1925412,253,EXACT,AG-GT

1925640,1925781,142,EXACT,AG-GT

1926439,1926558,120,START:Ends:1926901-1926945-1926802-

>> RNA-Seq evidence = 14/14 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_014480 - 15 ACCGGCCTTATGGAGCCACC

1936467,1938025,1559

1938828,1938939,112

1939460,1939519,60

1939946,1940125,180

1940659,1940810,152

1941096,1941169,74

1941816,1942012,197

1942280,1942515,236

1942749,1942830,82

1943078,1943161,84

1943658,1943707,50

1943933,1944106,174

1944709,1944805,97

1945634,1945768,135

1945962,1946171,210

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_014500 + 3 GTGTTTCCAATGGCAGACAA

1950195,1950592,398

1950644,1951136,493

1951309,1951551,243

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_014560 - 11 ACAACTGCAATGCCTGTGTT

1987499,1988106,608

1988689,1988956,268

1989501,1989875,375

1990361,1990447,87

1990926,1991063,138

1991881,1993477,1597

1994211,1994647,437

1995249,1995647,399

1996102,1996506,405

1997271,1999388,2118

1999874,2001670,1797

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_014610 + 2 ATCCAGGAAATGCTCGAAAC
2050511,2050574,64
2050938,2051857,920

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_014670 - 6 TTGCGTCAGATGGAGCAGCA
2079241,2079356,116,END:Starts:2076309-2078664-2078649-
2079779,2079890,112,START: end -26 GT
2080209,2080326,118
2080759,2081057,299
2081675,2081742,68
2082343,2082448,106,END:Starts:2082343-2082150-

>> RNA-Seq evidence = 3/6 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_014750 + 7 CAAGCCGCATGAGCCCCAC
2145912,2146891,980,END:Starts:2145307-2145420-2145465-
2147233,2147380,148,EXACT,AG-GT
2147686,2147794,109,EXACT,AG-GT
2148199,2148287,89,EXACT,AG-GT
2148903,2148983,81,EXACT,AG-GT
2149293,2149351,59,EXACT,AG-GT
2149683,2153109,3427,START:Ends:2153323-2155268-2155470-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_014780 + 8 GTTTTTCGTATGGCCTCGAC

2163945,2164000,56

2164545,2164665,121,EXACT,AG

2165137,2165552,416,EXACT,GT

2165965,2166377,413,START: end 60 AG

2166678,2167205,528

2167568,2167810,243

2168608,2169908,1301,EXACT,GT

2170430,2173240,2811,START:Ends:2173592-2171872-2173612-

>> RNA-Seq evidence = 5/8 (62.5%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_014780 + 8 GTTTTTCGTATGGCCTCGAC V [CT]..ATG[ACT]

2162945,2163782,838,5' UTR

2163783,2164000,218,GT,,Old start=2163945 (+ 1000)

2164545,2164665,121,INTERNAL,EXACT,AG

2165137,2165552,416,INTERNAL,EXACT,GT

2165965,2166377,413,INTERNAL,START: end 60 AG

2166678,2167205,528,INTERNAL,

2167568,2167810,243,INTERNAL,

2168608,2169908,1301,INTERNAL,EXACT,GT

2170430,2173240,2811,AG,START:Ends:2173592-2171872-2173612-,Old end=2173240

2173241,2173612,372,3' UTR

Leaky:ID=NCLIV_014780 + 8 GTTTTTCGTATGGCCTCGAC V TCGTATGG

2162945,2163944,1000,5' UTR

2163945,2164000,56,GT,,Old start=2163945 (+ 1000)
 2164545,2164665,121,INTERNAL,EXACT,AG
 2165137,2165552,416,INTERNAL,EXACT,GT
 2165965,2166377,413,INTERNAL,START: end 60 AG
 2166678,2167205,528,INTERNAL,
 2167568,2167810,243,INTERNAL,
 2168608,2169908,1301,INTERNAL,EXACT,GT
 2170430,2173240,2811,AG,START:Ends:2173592-2171872-2173612-,Old end=2173240
 2173241,2173612,372,3' UTR

#####

ID=NCLIV_014800 + 3 CGTCGGCCCATGGAGCCCTC

2182666,2183124,459

2183731,2185547,1817

2186068,2188069,2002

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_014860 - 1 GCGAGCGAGATGCAGAGGGA

2232581,2233840,1260

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_014940 + 4 TCGCGGACATGTTCTGTTCA

2276610,2276912,303,END:Starts:2275402-2274620-2274600-

2277277,2277934,658,EXACT,AG-GT

2278290,2278933,644,EXACT,AG-GT

2279278,2280942,1665,START:Ends:2281653-2281880-2281875-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = 237839770 0.0 100.6 78.54 2106 Toxoplasma gondii ME49
hypothetical protein

>> Alternative start codon

ID=NCLIV_014940 + 4 TCGCGCGACATGTTTCGTTCA V A..ATG

2275402,2276393,992,5' UTR

2276394,2276912,519,GT,END:Starts:2275402-2274620-2274600-,Old start=2276610

2277277,2277934,658,INTERNAL,EXACT,AG-GT

2278290,2278933,644,INTERNAL,EXACT,AG-GT

2279278,2280942,1665,AG,START:Ends:2281653-2281880-2281875-,Old end=2280942

2280943,2281880,938,3' UTR

#####

ID=NCLIV_014980 + 12 TGCTTGCAGATGGATTTCCT

2310684,2311749,1066,WITHIN:Starts:2311637-2310266-2311384-

2312144,2312457,314,START: end -11 AG

2312819,2313802,984

2314058,2314427,370,END: start 20 GT

2315049,2315189,141,START: end -64 Info:AG-GT-AG-GC-

2315707,2315798,92,END: start 8 AG-GT

2316120,2316188,69,EXACT,AG-GT

2316548,2316634,87,EXACT,AG-GT

2317003,2317148,146,EXACT,AG-GT

2317860,2318016,157,START: end -125 AG-GT

2318326,2318427,102,EXACT,AG-GT

2319104,2319652,549,START:Ends:2320495-2320400-2320402-

>> RNA-Seq evidence = 10/12 (83.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_015000 - 3 GAGAAGCAGATGGGGAATAA

2328998,2329969,972,END:Starts:2327728-2327748-2327749-
2330418,2330548,131,EXACT,AG-GT
2330834,2331734,901,START:EXACT

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_015040 + 4 GGATCTGGAATGACTGATGG
2370956,2371086,131,END:EXACT
2371309,2372455,1147,EXACT,AG-GT
2372783,2372827,45,EXACT,AG-GT
2373842,2374021,180,START:Ends:2374384-2374386-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_015110 - 1 TTGACCGGAATGTTGGCAAC
2464449,2465420,972

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_015150 - 5 TTCTTTCAAATGGAGGCGGA
2498957,2499073,117,END:Starts:2497928-2497974-
2499441,2499673,233,EXACT,AG-GT
2500151,2500241,91,EXACT,AG-GT
2500751,2500840,90,START: end -4 GT
2501470,2501766,297

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_015190 + 9 GCTGTGGAAATGCCTTCTCC

2524735,2525917,1183,END:Starts:2524375-2524338-2525112-

2526696,2526819,124,EXACT,AG-GT

2527029,2527190,162,EXACT,AG-GT

2527464,2528032,569,EXACT,AG

2528537,2528761,225,EXACT,AG

2529485,2529681,197,EXACT,AG-GT

2530275,2530367,93,EXACT,AG-GT

2531035,2531174,140,EXACT,AG-GT

2531577,2531661,85,START:EXACT

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_015230 - 8 TCTGCCGAGATGCTCCCGCA

2578792,2578920,129,END:Starts:2578390-2578218-

2579749,2579881,133

2580113,2580198,86

2580469,2580545,77

2580834,2580946,113

2581340,2581431,92

2582093,2582149,57

2582538,2582963,426

>> RNA-Seq evidence = 1/8 (12.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_015250 + 11 CTGGGACAGATGGCCCTCGA

2595005,2595233,229
2595338,2595456,119
2595837,2596895,1059
2597372,2597532,161
2598932,2599631,700
2599870,2600339,470
2600453,2600624,172
2601045,2601108,64
2601269,2601650,382
2602032,2602166,135
2602472,2605610,3139

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_0153- 20 GCGCCTGGAATGTCGGGCCA

2659701,2660219,519
2660549,2660686,138
2661358,2661457,100
2662077,2662202,126
2662598,2662752,155
2663166,2663357,192
2663571,2663708,138
2663894,2664085,192
2664543,2664680,138
2664946,2665191,246
2665946,2666407,462
2667458,2667676,219
2667960,2669492,1533
2670116,2670690,575

2670894,2671101,208

2671519,2671953,435

2672169,2673143,975

2673436,2673924,489

2674297,2674821,525

2675446,2682246,6801

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_015360 - 2 TCCGCTCCCATGGCGTCTGG

2699937,2702010,2074

2703490,2703974,485

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_015370 + 4 CGCAGAGGCATGTCGCTTCT

2704519,2706456,1938,WITHIN:Starts:2702311-2705713-

2706735,2711381,4647

2712061,2713282,1222,WITHIN: start 133 and end -931 AG

2714448,2714614,167

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

*** **CHROMOSOME VI**

#####

ID=NCLIV_015420 - 2 TTGCCTGCAATGCCCGCCGC

17199,18521,1323,END:Ends:18521-18047-

19012,19809,798,START:Ends:21103-21055-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_015470 + 6 AAGCGGCCGATGGAGGAAAA

58529,59269,741

60212,60515,304

60893,61576,684

63744,63871,128,OVER: start -1312 and end 92 GT (ref:AG-GT)<< Possible error

64104,64707,604,START: end 209 AG

64935,65116,182,START:Starts:64935-64104-

>> RNA-Seq evidence = 2/6 (33.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_015540 + 4 GTCGGCGACATGCTGCCTTC

101620,104091,2472,END:Starts:100000-100010-101434-

104468,104926,459,EXACT,AG-GT

105364,105960,597,EXACT,AG-GT

106432,107433,1002,START:Ends:107778-107890-107961-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_015600 + 10 GTTCAAGTAATGAAGGTGCG

150995,151000,6,END:Starts:150135-150092-

151756,151872,117,EXACT,AG-GT

152463,152620,158,EXACT,AG-GT
 153126,153247,122,EXACT,AG-GT
 153718,153803,86,EXACT,AG-GT
 154333,154499,167,EXACT,AG-GT
 154844,155059,216,EXACT,AG-GT
 155458,155544,87,EXACT,AG-GT
 155789,156249,461,EXACT,AG-GT
 156404,156513,110,START:Ends:158046-157150-156839-

>> RNA-Seq evidence = 10/10 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_015780 + 10 GCGGGCGCCATGACCCCCCG

296737,296978,242

297335,297396,62

298155,298252,98

298975,299090,116,END: start -209 GT

299797,299885,89,EXACT,GT

300496,300701,206,START: end -48 AG-GT

301053,301182,130

301482,301545,64,END: start -106 GT

301897,302062,166,EXACT,AG-GT

302534,302677,144,START:Ends:303212-303253-303200-

>> RNA-Seq evidence = 6/10 (60.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_015850 + 3 CGAAATTCAATGGATTTTCC

399862,400372,511,END:Starts:398505-399014-

401232,401311,80,START: end 3220 AG

401474,402631,1158,OVER:Ends:402345-404531-

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_015890 + 11 TGTCACGAGATGCGGATCAC

416449,416614,166

417053,417159,107

417595,417707,113

418264,418427,164

418865,418929,65

419572,419620,49

420725,420794,70

421296,421360,65

421728,421780,53

422598,422703,106

423145,423554,410

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_015930 - 4 TGGGCAGCTATGCATCCGGG

452573,452598,26,END:Starts:451405-451675-451542-

453072,453836,765,EXACT,AG-GT

454263,454313,51,EXACT,AG-GT

454963,454984,22,START:Ends:455258-456078-456304-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_015930 - 4 TGGGCAGCTATGCATCCGGG VI [CT]..ATG[ACT]

455165,455258,94,5' UTR

454963,455164,202,GT,START:Ends:455258-456078-456304-,Old end=454984

454263,454313,51,INTERNAL,EXACT,AG-GT

453072,453836,765,INTERNAL,EXACT,AG-GT

452573,452598,26,AG,END:Starts:451405-451675-451542-,Old start=452573

451405,452574,1168,3' UTR

Leaky:ID=NCLIV_015930 - 4 TGGGCAGCTATGCATCCGGG VI
[CT]..ATG[ACT]

455102,455258,157,5' UTR

454963,455101,139,GT,START:Ends:455258-456078-456304-,Old end=454984

454263,454313,51,INTERNAL,EXACT,AG-GT

453072,453836,765,INTERNAL,EXACT,AG-GT

452573,452598,26,AG,END:Starts:451405-451675-451542-,Old start=452573

451405,452574,1168,3' UTR

#####

ID=NCLIV_015940 - 12 CGTCCCTCCATGGAAGCAAG

456308,456723,416

457248,457308,61

457773,457909,137

458049,458171,123

458565,458627,63

459234,459314,81

459847,460266,420

460391,460486,96

460923,460982,60

461576,461629,54

462138,462224,87

462867,463065,199

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_015980 - 4 GGCGCGCTCATGGGGGTCTG

494917,495049,133,END:Starts:494460-494629-494518-

495374,495435,62,EXACT,AG-GT

495541,495585,45,EXACT,AG-GT

496070,496675,606,START:Ends:497093-497141-499302-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_016100 - 29 CTCCTTTTATGGCTTCCAT

632517,632610,94

633247,633293,47

633552,633568,17

633923,634043,121

635003,635050,48

635522,635587,66

635801,635865,65

636220,636271,52,END: start 8 AG

636616,636693,78,EXACT,AG-GT

636907,637096,190,START: end -1 GT

637380,637595,216,END: start 7 AG

638186,638255,70,EXACT,AG-GT

638885,638972,88,START: end 2 GT

639412,639495,84

639905,640414,510

640814,640913,100

641362,641421,60

642061,642259,199
 642830,642862,33
 643447,643549,103
 643755,643807,53
 644727,644861,135
 645104,645176,73
 645401,645699,299
 645969,646011,43
 646180,646285,106
 646377,646466,90
 647189,647294,106
 647537,647954,418

>> RNA-Seq evidence = 6/29 (20.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_016110 - 9 ACAACCGATATGAACATTAG

650957,651124,168,END:Starts:649878-649924-649936-

651485,651579,95,EXACT,AG-GT

651849,651925,77,END: start -15 TAGITGAI/TAA:AG-GC (ref:AC-GT)<< Possible error

652424,652615,192,EXACT,AG-GT

653193,653280,88,EXACT,AG-GT

653388,653466,79,EXACT,AG-GT

653948,654107,160,EXACT,AG-GT

654523,654622,100,EXACT,AG-GT

655278,655452,175,START:Ends:656124-655935-656118-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_016110 - 9 ACAACCGATATGAACATTAG VI A..ATG
 655699,655935,237,5' UTR
 655278,655698,421,GT,START:Ends:656124-655935-656118-,Old end=655452
 654523,654622,100,INTERNAL,EXACT,AG-GT
 653948,654107,160,INTERNAL,EXACT,AG-GT
 653388,653466,79,INTERNAL,EXACT,AG-GT
 653193,653280,88,INTERNAL,EXACT,AG-GT
 652424,652615,192,INTERNAL,EXACT,AG-GT
 651849,651925,77,INTERNAL,END: start -15 TAGITGAI/TAA:AG-GC (ref:AC-GT)<< Possible error
 651485,651579,95,INTERNAL,EXACT,AG-GT
 650957,651124,168,AG,END:Starts:649878-649924-649936-,Old start=650957
 649878,650958,1079,3' UTR

#####

ID=NCLIV_016250 + 6 CTCCAATCAATGGGAATCAT
 746972,747227,256,END:Starts:746259-746327-746636-
 747550,747656,107,EXACT,AG-GT
 748180,748648,469,EXACT,AG-GT
 748936,749098,163,EXACT,AG-GT
 749487,749679,193,START: end 761 AG
 750089,750154,66,OVER:Ends:750374-750440-751341-

>> RNA-Seq evidence = 5/6 (83.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_016270 - 3 CGGTAGGTGATGAATTGGTT
 751825,752559,735
 752678,752879,202
 752908,753101,194

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_016290 + 4 ATCACACTCATGGACAGCCT

755566,756636,1071

757221,757345,125

757490,757559,70

757708,758853,1146

>> RNA-Seq evidence = NONE

>> Homology evidence = 237834616 0.0 101.6 75.78 1144 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_016380 - 4 CGCCTAGCAATGCTCGAATT

830383,830508,126,END:EXACT

830973,831104,132,EXACT,AG-GT

832034,832185,152,START: end 878 GT

832277,832412,136,OVER:Ends:832367-833108-833063-

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_016380 - 4 CGCCTAGCAATGCTCGAATT VI [CT]..ATG[ACT]

832308,832367,60,5' UTR

832277,832307,31,GT,OVER:Ends:832367-833108-833063-,Old end=832412

832034,832185,152,INTERNAL,START: end 878 GT

830973,831104,132,INTERNAL,EXACT,AG-GT

830383,830508,126,AG,END:EXACT,Old start=830383 (+ 1000)

829383,830384,1000,3' UTR

#####

ID=NCLIV_016400 + 1 TCGCCGTGCATGGTTTCCTC

836465,837028,564,OVER:Starts:837101-835209-833159-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_016500 + 6 AAATCCGAGATGCTCGAAGT

920397,920450,54

920762,920902,141,EXACT,AG-GT

921570,921712,143,END: start -104 AG

921854,921944,91,EXACT,AG-GT

922339,922395,57

922654,922773,120,START:Ends:923257-923265-

>> RNA-Seq evidence = 4/6 (66.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_016500 + 6 AAATCCGAGATGCTCGAAGT VI [CT]..ATG[ACT]

919397,920132,736,5' UTR

920133,920450,318,GT,,Old start=920397 (+ 1000)

920762,920902,141,INTERNAL,EXACT,AG-GT

921570,921712,143,INTERNAL,END: start -104 AG

921854,921944,91,INTERNAL,EXACT,AG-GT

922339,922395,57,INTERNAL,

922654,922773,120,AG,START:Ends:923257-923265-,Old end=922773

922774,923265,492,3' UTR

Leaky:ID=NCLIV_016500 + 6 AAATCCGAGATGCTCGAAGT VI A..ATG

919397,920225,829,5' UTR

920226,920450,225,GT,,Old start=920397 (+ 1000)

920762,920902,141,INTERNAL,EXACT,AG-GT

921570,921712,143,INTERNAL,END: start -104 AG

921854,921944,91,INTERNAL,EXACT,AG-GT

922339,922395,57,INTERNAL,

922654,922773,120,AG,START:Ends:923257-923265-,Old end=922773

922774,923265,492,3' UTR

#####

ID=NCLIV_016650 - 1 GAGTTACCGATGGCAAATCC

1084604,1085407,804

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_016770 + 5 GACATCCCGATGGCGACTGC

1123958,1124308,351,END:Starts:1121804-1121720-1124025-

1124422,1124589,168,EXACT,AG-GT

1124922,1125503,582,EXACT,ATG:AG-GT

1125722,1125946,225,EXACT,AG-GT

1126598,1126747,150,OVER:Ends:1127390-1127894-1127504-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_016800 + 10 TCAACTTTGATGGTGAGCAA

1138001,1138003,3,END:Starts:1137663-1137683-1137694-

1138207,1138293,87,EXACT,AG-GT

1138622,1138843,222,EXACT,AG-GT

1138944,1139195,252,START: end -7 AG

1139409,1139669,261,OVER: start -3 and end 694 GT

1139952,1140166,215,OVER: start -2 and end 197 GT

1140258,1140363,106,END: start -308 GT

1140492,1140726,235,EXACT,AG-GT

1140825,1140920,96,EXACT,AG-GT

1141031,1141284,254,START:Ends:1141651-1141652-1141592-

>> RNA-Seq evidence = 8/10 (80.0%)

>> Homology evidence = 237834762 0.0 63.9 91.85 2416 Toxoplasma gondii ME49
TCP-1/cpn60 chaperonin family protein

>> Alternative start codon

ID=NCLIV_016800 + 10 TCAACTTTGATGGTGAGCAA VI [CT]..ATG[ACT]

1137694,1137700,7,5' UTR

1137701,1138003,303,GT,END:Starts:1137663-1137683-1137694-,Old start=1138001

1138207,1138293,87,INTERNAL,EXACT,AG-GT

1138622,1138843,222,INTERNAL,EXACT,AG-GT

1138944,1139195,252,INTERNAL,START: end -7 AG

1139409,1139669,261,INTERNAL,OVER: start -3 and end 694 GT

1139952,1140166,215,INTERNAL,OVER: start -2 and end 197 GT

1140258,1140363,106,INTERNAL,END: start -308 GT

1140492,1140726,235,INTERNAL,EXACT,AG-GT

1140825,1140920,96,INTERNAL,EXACT,AG-GT

1141031,1141284,254,AG,START:Ends:1141651-1141652-1141592-,Old end=1141284

1141285,1141652,368,3' UTR

Leaky:ID=NCLIV_016800 + 10 TCAACTTTGATGGTGAGCAA VI A..ATG

1137694,1137754,61,5' UTR

1137755,1138003,249,GT,END:Starts:1137663-1137683-1137694-,Old start=1138001

1138207,1138293,87,INTERNAL,EXACT,AG-GT

1138622,1138843,222,INTERNAL,EXACT,AG-GT

1138944,1139195,252,INTERNAL,START: end -7 AG

1139409,1139669,261,INTERNAL,OVER: start -3 and end 694 GT

1139952,1140166,215,INTERNAL,OVER: start -2 and end 197 GT

1140258,1140363,106,INTERNAL,END: start -308 GT

1140492,1140726,235,INTERNAL,EXACT,AG-GT

1140825,1140920,96,INTERNAL,EXACT,AG-GT

1141031,1141284,254,AG,START:Ends:1141651-1141652-1141592-,Old end=1141284

1141285,1141652,368,3' UTR

#####

ID=NCLIV_016810 - 10 AACATAGAAATGAAGCTGAC

1141409,1141438,30

1141496,1141531,36

1141587,1141675,89

1141733,1141776,44

1141836,1141872,37

1141934,1141967,34

1142024,1142107,84

1142161,1142228,68

1142284,1142390,107

1142455,1142738,284

>> RNA-Seq evidence = NONE

>> Homology evidence = 237834764 0.0 66.2 87.96 959 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_016860 - 7 AAGAGGGGAATGCAGATGGG

1174539,1175182,644,END:Starts:1173031-1174404-1172895-

1175606,1175651,46,EXACT,AG-GT

1175889,1175950,62,START: end 2 GT

1176219,1176264,46,EXACT,GT

1176655,1176827,173,EXACT,AG

1177226,1177367,142,EXACT,AG-GT

1177512,1177703,192,START:Ends:1177986-1178095-1178692-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_016870 + 4 CGAGCTCCAATGGTACTACG

1178477,1178703,227,END:Starts:1178347-1178156-1178194-

1178898,1179001,104,EXACT,AG-GT

1179100,1179229,130,EXACT,AG-GT

1179390,1179504,115,START:Ends:1180580-1180631-1180638-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_016910 - 2 GTCTTCGTCATGTTGCAAGC

1215599,1215925,327,END:EXACT

1217044,1217364,321,START:Ends:1217642-1217200-1217411-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_016910 - 2 GTCTTCGTCATGTTGCAAGC VI G..ATGG

1217143,1217200,58,5' UTR

1217044,1217142,99,GT,START:Ends:1217642-1217200-1217411-,Old end=1217364

1215599,1215925,327,AG,END:EXACT,Old start=1215599 (+ 1000)

1214599,1215600,1000,3' UTR

#####

ID=NCLIV_017070 - 1 GAACGCCCATGGGAGGCAG

1361895,1363004,1110

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_017130 - 1 CTCGAGCAAATGGCGCCGCT
1398995,1399720,726

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_017140 + 1 ACGTGGTCCATGGCGGACGT
1402494,1403057,564

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_017220 + 2 AGGGCACCTATGGCATCAGG
1468892,1469275,384
1469497,1470642,1146

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_017270 - 6 CAGGCCGCGATGTCGTCGCC
1505622,1505819,198,END:Starts:1501920-1504267-1503925-
1506164,1506235,72,EXACT,AG-GT
1506799,1507770,972,EXACT,AG-GT
1508271,1508846,576,EXACT,AG-GT
1509308,1510166,859,EXACT,AG-GT
1510614,1521661,11048,START:Ends:1514571-1513845-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_017330 - 4 GGACAGGGTATGCCGCCCGC
 1576882,1577020,139
 1577346,1578226,881,EXACT,GT
 1578527,1579928,1402,START: end 1306 GT
 1581386,1581423,38

>> RNA-Seq evidence = 2/4 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_017340 + 4 TCGGCCGCAATGCGTCCTCG
 1582167,1584379,2213
 1584822,1585672,851
 1586274,1586556,283
 1587045,1587807,763

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_017460 + 2 GAGGCCGCGATGAGGGGGAA
 1671794,1672298,505,END:Starts:1670529-1670306-1671134-
 1673027,1673235,209,START:Ends:1674334-1675167-1675183-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_017460 + 2 GAGGCCGCGATGAGGGGGAA VI A..ATG
 1671134,1671592,459,5' UTR
 1671593,1672298,706,GT,END:Starts:1670529-1670306-1671134-,Old start=1671794
 1673027,1673235,209,AG,START:Ends:1674334-1675167-1675183-,Old end=1673235
 1673236,1675183,1948,3' UTR

#####

ID=NCLIV_017490 - 15 TTTTCCTCGATGGCGAGCTC

1689317,1690381,1065,END:Starts:1688839-1690079-

1691030,1691128,99,START: end -1 GT

1691537,1691751,215

1692382,1692549,168

1693099,1693219,121

1694362,1694436,75,END: start 7 AG

1695037,1695142,106,EXACT,AG-GT

1695391,1695515,125,EXACT,AG-GT

1696058,1696125,68,EXACT,AG-GT

1696789,1696843,55,EXACT,AG-GT

1697736,1697801,66,EXACT,AG-GT

1698281,1698524,244,START: end 15 GT

1698870,1698972,103

1699414,1699657,244

1700156,1700410,255

>> RNA-Seq evidence = 9/15 (60.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_0175+ 11 ATGCGGCCAATGGACTTAGT

1758777,1758944,168

1759472,1759504,33

1760030,1760183,154

1760419,1761012,594

1761346,1761679,334,END: start 196 GT

1761995,1764877,2883,START: end -1855 AG

1765357,1765621,265

1766302,1766481,180

1767041,1767172,132

1767719,1767851,133

1768106,1772934,4829

>> RNA-Seq evidence = 2/11 (18.2%)

>> Homology evidence = NONE

#####

ID=NCLIV_017520 - 15 ACTGCTGTAATGATCGGTAG

1710809,1711374,566

1711528,1711664,137

1712268,1712538,271

1713545,1713873,329

1714747,1715044,298

1715395,1715524,130

1715975,1716048,74

1716841,1717096,256

1717478,1717628,151

1718269,1718546,278

1719259,1719314,56

1719519,1719621,103

1720098,1720349,252

1720723,1721022,300,END: start -553 AG

1721374,1721418,45

>> RNA-Seq evidence = 1/15 (6.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_017590 - 6 AGTGTGGGCATGCGCACGGC

1791121,1791435,315,END:Starts:1790520-1790984-1790982-

1791836,1791915,80,EXACT,AG-GT

1792357,1792416,60,EXACT,AG-GT

1792955,1793157,203,EXACT,AG-GT

1793677,1793758,82,EXACT,AG-GT

1794440,1794746,307,START:EXACT

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = 237834956 0.0 60.3 85.89 771 Toxoplasma gondii ME49
mitochondrial carrier domain-containing protein

#####

ID=NCLIV_0176- 1 TTGATCTTCATGGCACCAGT

1807184,1810108,2925,OVER:Starts:1805768-1805327-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_017600 - 6 ACGGAAGAGATGCGCGCTGT

1800045,1800972,928,END:Starts:1798900-1799236-1799162-

1801283,1801410,128,EXACT,AG-GT

1801540,1801836,297,START: end 3 GT

1802294,1802695,402,START: end -3 GT

1803119,1803274,156

1803759,1803881,123

>> RNA-Seq evidence = 4/6 (66.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_017600 - 6 ACGGAAGAGATGCGCGCTGT VI A..ATG

1804521,1804881,361,5' UTR

1803759,1804520,762,GT,,Old end=1803881 (-1000)

1803119,1803274,156,INTERNAL,

1802294,1802695,402,INTERNAL,START: end -3 GT
 1801540,1801836,297,INTERNAL,START: end 3 GT
 1801283,1801410,128,INTERNAL,EXACT,AG-GT
 1800045,1800972,928,AG,END:Starts:1798900-1799236-1799162-,Old start=1800045
 1798900,1800046,1145,3' UTR

#####

ID=NCLIV_017640 - 6 GACAAGGAAATGTCTCAGGA

1834109,1834335,227,END:Starts:1833300-1833749-1833315-
 1834588,1834772,185,EXACT,AG-GT
 1835079,1835259,181,START: end -43 AG-GT
 1835921,1835991,71,EXACT,AG-GT
 1836936,1837312,377,EXACT,AG-GT
 1837543,1838166,624,START:Ends:1838627-1838411-1838631-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_017650 + 20 AGAAGACCCATGGCCTCCGA

1839754,1839849,96
 1840591,1842208,1618,END: start 1091 GT (ref:AG-GT)<< Possible error
 1842826,1845876,3051
 1846242,1846601,360
 1846836,1847137,302
 1847772,1851586,3815,END: start 3223 GT
 1851716,1852370,655,EXACT,AG
 1852768,1853371,604
 1853736,1861272,7537,END: start 1691 GT (ref:AG-GT)<< Possible error
 1861708,1864935,3228,END: start 2239 AG-GT
 1865571,1868064,2494,START: end -36 AG-GC (ref:AG-GT)<< Possible error
 1868227,1868625,399,EXACT,AG-GT

1868879,1869446,568,START: end -21 AG

1870820,1870940,121,END: start 19 GT (ref:AG-GT)<< Possible error

1871239,1871685,447,EXACT,AG-GT

1871929,1871999,71,EXACT,AG-GT

1872461,1872841,381,EXACT,AG-GT

1873201,1873317,117,EXACT,AG-GT

1873793,1874001,209,START: end -17 AG

1874485,1875102,618

>> RNA-Seq evidence = 14/20 (70.0%)

>> Homology evidence = 237834970 0.0 308.2 79.53 1748 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_017740 + 1 CACTTCCGATGGCGACAGG

1951018,1951668,651

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_017760 - 22 AGAGTCGCCATGTGCAAGCA

1970991,1971150,160

1971754,1971965,212

1972205,1972341,137

1972596,1972717,122

1973439,1973478,40

1973847,1974009,163

1974182,1974228,47

1974934,1974977,44

1975195,1975378,184

1975651,1975744,94

1976080,1976202,123
 1977082,1977249,168
 1977520,1977561,42
 1978446,1978505,60
 1978899,1978968,70
 1979616,1979743,128
 1980080,1980193,114
 1980549,1980737,189
 1981372,1981436,65
 1982442,1982472,31
 1983010,1983186,177
 1984155,1984346,192

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_017790 - 4 GTTAAAGCAATGACCGAAGA

2031875,2031942,68,END:EXACT

2032551,2032616,66,EXACT,AG-GT

2032766,2032987,222,EXACT,AG-GT

2033219,2033267,49,START:EXACT

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_017790 - 4 GTTAAAGCAATGACCGAAGA VI A..ATG

2033466,2034267,802,5' UTR

2033219,2033465,247,GT,START:EXACT,Old end=2033267 (-1000)

2032766,2032987,222,INTERNAL,EXACT,AG-GT

2032551,2032616,66,INTERNAL,EXACT,AG-GT

2031875,2031942,68,AG,END:EXACT,Old start=2031875 (+ 1000)

2030875,2031876,1000,3' UTR

#####

ID=NCLIV_017870 - 6 CCGCTCCCATGGAGGCCTC

2093150,2093262,113,END:Starts:2092729-2091635-

2093747,2093789,43,EXACT,AG-GT

2094065,2094190,126,EXACT,AG-GT

2094938,2095027,90,EXACT,AG-GT

2095751,2095873,123,EXACT,AG-GT

2096052,2096321,270,START:Ends:2097583-2096434-2096076-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_017990 - 5 GCGTGTCAGATGGACGCAGC

2155303,2155889,587,OVER:Ends:2155892-2157889-

2156056,2157889,1834,END: start -1519 AG

2158221,2158462,242,EXACT,ATG:AG-GT

2158635,2158823,189,EXACT,AG-GT

2159080,2160061,982,START:Ends:2160665-2160554-2160674-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_017990 - 5 GCGTGTCAGATGGACGCAGC VI A..ATG

2160122,2160554,433,5' UTR

2159080,2160121,1042,GT,START:Ends:2160665-2160554-2160674-,Old end=2160061

2158635,2158823,189,INTERNAL,EXACT,AG-GT

2158221,2158462,242,INTERNAL,EXACT,ATG:AG-GT

2156056,2157889,1834,INTERNAL,END: start -1519 AG

2155303,2155889,587,AG,OVER:Ends:2155892-2157889-,Old start=2155303 (+ 1000)

2154303,2155304,1000,3' UTR

#####

ID=NCLIV_018010 + 9 GTCGCCGAGATGCTCCTCCC

2174848,2175376,529,END:EXACT

2176369,2176453,85,EXACT,AG-GT

2177183,2177319,137,EXACT,AG-GT

2177929,2178164,236,EXACT,AG-GT

2178716,2178832,117,EXACT,AG-GT

2179299,2179383,85,EXACT,AG-GT

2179932,2180006,75,EXACT,AG-GT

2180506,2180606,101,EXACT,AG-GT

2181063,2181122,60,START:Ends:2181594-2181591-2181597-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = 237835052 0.0 141.4 82.36 876 Toxoplasma gondii ME49 G-protein beta-subunit

#####

ID=NCLIV_018050 - 2 CAAGGCGCCATGAGTCTGCC

2226332,2226786,455,END:Starts:2225853-2225942-2225903-

2227361,2228816,1456,START:Ends:2229589-2228825-2231941-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_018140 - 1 GTAGCGCCAATGGTGGGGGG

2313777,2319704,5928

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_018180 + 5 AGAAGCGCGATGCACACCAT

2347171,2347834,664

2348275,2348502,228

2348919,2348984,66

2349425,2349516,92

2350025,2350450,426

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_018270 - 3 CAGTGGTCCATGGCAGGCCG

2420340,2420763,424

2421217,2421420,204

2422296,2422486,191

>> RNA-Seq evidence = NONE

>> Homology evidence = 237835112 0.0 127.6 85.71 651 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_018280 + 6 TGGTTAGCCATGCCACCCGT

2424828,2424843,16

2425504,2425572,69

2425870,2425995,126

2426471,2426672,202

2427514,2427611,98

2428062,2428279,218

>> RNA-Seq evidence = NONE

>> Homology evidence = 237835114 0.0 113.0 85.96 686 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_018320 - 1 TGGACCGCCATGTCAACGTG
2447532,2449085,1554

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_018380 + 3 CGTCTCTCCATGGCTCCTGC
2494798,2495096,299
2495782,2496067,286
2496485,2496946,462

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_018440 - 6 GCCATCGGGATGTACAGACA
2537346,2537391,46
2537766,2537853,88,EXACT,AG
2538497,2539001,505,EXACT,AG-GT
2539463,2539517,55
2540073,2540357,285,END: start -8 AG
2541660,2542501,842,START:Ends:2544262-2543814-

>> RNA-Seq evidence = 4/6 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_018510 + 1 CAACTCGCAATGACTTCTTT
2583404,2584363,960

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_018530 - 5 TAAGTCGAAATGCGTCAATT

2598046,2598123,78,END:Starts:2597384-2597392-2597374-

2598409,2598591,183,EXACT,AG-GT

2599013,2599249,237,EXACT,AG-GT

2599723,2599891,169,EXACT,AG-GT

2600181,2602381,2201,START:EXACT

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_018580 - 1 ACAGTCTCGATGGAAGCTGA

2637286,2637630,345

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_018590 + 6 TCTCGCGCGATGCCCGTCCC

2639599,2639994,396,END:EXACT

2640611,2640709,99,EXACT,AG-GT

2641252,2641318,67,EXACT,AG-GT

2641674,2641835,162,EXACT,AG-GT

2642486,2642632,147,START: end -4 AG-GC (ref:AG-GT)<< Possible error

2643170,2643645,476

>> RNA-Seq evidence = 5/6 (83.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_018630 + 1 ATCACCGTGATGCACCCCTC

2667873,2670797,2925

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_018640 + 1 GCCAGAGCCATGTCGCACCA

2674812,2677568,2757

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_018700 - 33 TTCTGTTGATGCAGTCGAC

2725327,2725368,42

2725569,2725792,224

2727093,2727209,117

2728260,2728351,92

2728612,2728933,322

2729058,2729106,49

2731425,2731648,224

2732949,2733065,117

2734116,2734207,92

2734473,2734895,423

2735553,2735698,146

2737285,2737508,224

2738809,2738925,117

2739976,2740073,98

2740339,2740761,423

2741418,2741563,146

2743150,2743373,224

2744674,2744765,92

2745837,2745938,102
2746204,2746626,423
2747284,2747309,26
2749017,2749240,224
2749755,2749838,84
2750223,2750314,92
2750635,2750723,89
2751234,2751491,258
2751903,2752043,141
2752205,2752287,83
2752678,2752783,106,END: start 4 AG
2753283,2753403,121,EXACT,AG-GT
2753862,2753959,98,EXACT,AG-GT
2754367,2754576,210,EXACT,AG-GT
2755192,2755311,120,START:EXACT

>> RNA-Seq evidence = 5/33 (15.2%)

>> Homology evidence = NONE

#####

ID=NCLIV_018730 + 3 CTTCGAGAGATGTCTCCCTC

2776347,2780663,4317

2781201,2781702,502

2782109,2784612,2504

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_018780 - 1 TCGGGGTCCATGGCAACGCT

2816098,2818275,2178

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_018820 + 1 TCCTTCGACATGCGGAAGGA
2852136,2853113,978

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_018825 + 5 CTCGGCCAGATGGATCCCTC
2855460,2855635,176,END:Starts:2855131-2855063-
2855960,2856536,577,EXACT,AG-GT
2857070,2857180,111,EXACT,AG-GT
2857662,2857694,33,END: start 9 GT
2858331,2858441,111,START:EXACT

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_018825 + 5 CTCGGCCAGATGGATCCCTC VI [CT]..ATG[ACT]
2855131,2855219,89,5' UTR
2855220,2855635,416,GT,END:Starts:2855131-2855063-,Old start=2855460
2855960,2856536,577,INTERNAL,EXACT,AG-GT
2857070,2857180,111,INTERNAL,EXACT,AG-GT
2857662,2857694,33,INTERNAL,END: start 9 GT
2858331,2858441,111,AG,START:EXACT,Old end=2858441 (-1000)
2858442,2859441,1000,3' UTR

Leaky:ID=NCLIV_018825 + 5 CTCGGCCAGATGGATCCCTC VI
CCAGATGG
2855131,2855459,329,5' UTR

2855460,2855635,176,GT,END:Starts:2855131-2855063-,Old start=2855460

2855960,2856536,577,INTERNAL,EXACT,AG-GT

2857070,2857180,111,INTERNAL,EXACT,AG-GT

2857662,2857694,33,INTERNAL,END: start 9 GT

2858331,2858441,111,AG,START:EXACT,Old end=2858441 (-1000)

2858442,2859441,1000,3' UTR

#####

ID=NCLIV_018960 + 1 GCGACATTGATGGCTTCTGT

2959572,2961335,1764

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_019030 - 8 CCTTCCGCCATGCAGCCCCA

3010364,3010755,392,END:EXACT

3011394,3012342,949,EXACT,AG-GT

3012712,3012945,234,EXACT,AG-GT

3013150,3013395,246,EXACT,AG-GT

3013738,3014231,494,EXACT,AG-GT

3014906,3016760,1855,EXACT,AG-GT

3017112,3017729,618,EXACT,AG-GT

3018418,3021141,2724,START:Ends:3022249-3018724-3022595-

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = 237835276 0.0 96.5 77.45 1555 Toxoplasma gondii ME49 viral
A-type inclusion protein repeat family

#####

ID=NCLIV_019140 + 17 AAGCCGCACATGGTACTGGT

3095639,3095706,68

3096378,3096440,63

3097418,3097484,67
3097920,3098084,165
3098180,3098239,60
3098500,3098558,59
3098969,3099020,52
3099164,3099240,77
3099378,3099553,176
3100138,3100225,88
3100375,3100454,80
3100736,3100882,147
3101156,3101280,125
3101712,3101953,242
3102416,3102524,109
3102792,3102962,171
3103523,3103642,120

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_019150 - 5 CACGCCGCAATGCCTCAGAC

3104902,3104967,66,OVER:EXACT

3105512,3105571,60,END: start -796 AG (ref:AC-GT)<< Possible error

3106288,3106396,109,START: end 53 GT

3106893,3107110,218

3107619,3109289,1671

>> RNA-Seq evidence = 3/5 (60.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_019210 + 6 AGTTTCGAAATGAGGACTGC

3148118,3150505,2388,END:Starts:3145697-3145832-3150044-
3151184,3151290,107,EXACT,AG-GT
3151746,3151820,75,EXACT,AG-GT
3152051,3152200,150,EXACT,AG-GT
3152664,3152745,82,EXACT,AG-GT
3153241,3154287,1047,START:EXACT

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_019260 - 9 CTCGAGCAAATGGAGGTTTA

3183256,3183343,88

3183667,3183722,56

3184399,3184564,166

3187160,3187390,231

3187808,3187938,131

3188320,3188379,60

3189033,3189162,130

3189683,3189840,158

3190818,3190829,12

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_019290 + 18 CTCTCTGAGATGCCACTGGA

3208515,3209694,1180

3210198,3210493,296

3210935,3211059,125

3211887,3211983,97

3212452,3212930,479

3214009,3214090,82
3214462,3216135,1674
3216584,3216768,185
3216987,3217205,219
3217925,3218049,125
3218296,3218794,499
3219414,3219607,194
3220316,3220448,133
3221951,3222152,202
3222706,3222802,97
3223130,3224566,1437
3225087,3225760,674
3226235,3226288,54

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_019330 + 9 GGGCAAGTGATGCGGGCGGT

3248407,3248596,190,END:Starts:3247333-3247311-
3249183,3249254,72,EXACT,AG-GT
3249502,3249623,122,EXACT,AG-GT
3250186,3250243,58,EXACT,AG-GT
3251156,3251257,102,END: start 2 GT (ref:AG-GT)<< Possible error
3251773,3251848,76,EXACT,AG-GT
3252353,3252430,78,EXACT,AG-GT
3252885,3253068,184,EXACT,AG-GT
3253504,3253620,117,START:EXACT

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_019330 + 9 GGGCAAGTGATGCGGGCGGT VI [CT]..ATG[ACT]

3247333,3248370,1038,5' UTR

3248371,3248596,226,GT,END:Starts:3247333-3247311-,Old start=3248407

3249183,3249254,72,INTERNAL,EXACT,AG-GT

3249502,3249623,122,INTERNAL,EXACT,AG-GT

3250186,3250243,58,INTERNAL,EXACT,AG-GT

3251156,3251257,102,INTERNAL,END: start 2 GT (ref:AG-GT)<< Possible error

3251773,3251848,76,INTERNAL,EXACT,AG-GT

3252353,3252430,78,INTERNAL,EXACT,AG-GT

3252885,3253068,184,INTERNAL,EXACT,AG-GT

3253504,3253620,117,AG,START:EXACT,Old end=3253620 (-1000)

3253621,3254620,1000,3' UTR

Leaky:ID=NCLIV_019330 + 9 GGGCAAGTGATGCGGGCGGT VI AGTGATGC

3247333,3248406,1074,5' UTR

3248407,3248596,190,GT,END:Starts:3247333-3247311-,Old start=3248407

3249183,3249254,72,INTERNAL,EXACT,AG-GT

3249502,3249623,122,INTERNAL,EXACT,AG-GT

3250186,3250243,58,INTERNAL,EXACT,AG-GT

3251156,3251257,102,INTERNAL,END: start 2 GT (ref:AG-GT)<< Possible error

3251773,3251848,76,INTERNAL,EXACT,AG-GT

3252353,3252430,78,INTERNAL,EXACT,AG-GT

3252885,3253068,184,INTERNAL,EXACT,AG-GT

3253504,3253620,117,AG,START:EXACT,Old end=3253620 (-1000)

3253621,3254620,1000,3' UTR

*** **CHROMOSOME VIIa**

#####

ID=NCLIV_019420 + 30 CCACCGTCTATGGCAAACCC

83488,83680,193,END:Starts:80456-
83978,84160,183,START: end -4 Info:AG-GT-AG-GC-
84590,84736,147
84906,84984,79
85272,85348,77,END: start 7 GT
85641,85706,66,EXACT,ATG:AG-GT
86149,86235,87,EXACT,AG-GT
86382,86467,86,EXACT,AG-GT
86822,88977,2156,EXACT,AG
89256,89355,100,EXACT,AG-GT
89556,89687,132,START: end 377 Info:AG-GT-AG-GC-
89783,89856,74,OVER: start -227 and end 208 Info:AG-GT-AG-GC-
90089,90113,25
90294,90356,63
90561,90694,134
90885,90973,89
91311,91434,124
91709,91771,63
92069,92131,63
92269,92310,42
92421,92483,63
92677,92728,52
93503,93652,150,END: start -2 GT
93909,93957,49,EXACT,AG-GT
94168,94265,98,START: end 86 AG
94475,94719,245,END: start 9 AG-GT
94944,95012,69,EXACT,AG-GT
95128,95221,94,EXACT,AG-GT
95431,95505,75,EXACT,AG-GT

95626,95949,324,START:Ends:97358-97534-

>> RNA-Seq evidence = 17/30 (56.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_019420 + 30 CCACCGTCTATGGCAAACCC VIIa A..ATG

80456,83037,2582,5' UTR

83038,83680,643,GT,END:Starts:80456-,Old start=83488

83978,84160,183,INTERNAL,START: end -4 Info:AG-GT-AG-GC-

84590,84736,147,INTERNAL,

84906,84984,79,INTERNAL,

85272,85348,77,INTERNAL,END: start 7 GT

85641,85706,66,INTERNAL,EXACT,ATG:AG-GT

86149,86235,87,INTERNAL,EXACT,AG-GT

86382,86467,86,INTERNAL,EXACT,AG-GT

86822,88977,2156,INTERNAL,EXACT,AG

89256,89355,100,INTERNAL,EXACT,AG-GT

89556,89687,132,INTERNAL,START: end 377 Info:AG-GT-AG-GC-

89783,89856,74,INTERNAL,OVER: start -227 and end 208 Info:AG-GT-AG-GC-

90089,90113,25,INTERNAL,

90294,90356,63,INTERNAL,

90561,90694,134,INTERNAL,

90885,90973,89,INTERNAL,

91311,91434,124,INTERNAL,

91709,91771,63,INTERNAL,

92069,92131,63,INTERNAL,

92269,92310,42,INTERNAL,

92421,92483,63,INTERNAL,

92677,92728,52,INTERNAL,

93503,93652,150,INTERNAL,END: start -2 GT

93909,93957,49,INTERNAL,EXACT,AG-GT
 94168,94265,98,INTERNAL,START: end 86 AG
 94475,94719,245,INTERNAL,END: start 9 AG-GT
 94944,95012,69,INTERNAL,EXACT,AG-GT
 95128,95221,94,INTERNAL,EXACT,AG-GT
 95431,95505,75,INTERNAL,EXACT,AG-GT
 95626,95949,324,AG,START:Ends:97358-97534-,Old end=95949
 95950,97534,1585,3' UTR

#####

ID=NCLIV_019430 - 3 CTTCTCGACATGTAAAGCT

97268,97369,102,END:Starts:95684-95815-94484-

97731,97847,117,START: end 1105 GT

98285,98746,462,OVER:Ends:100453-98180-98952-

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_019720 - 11 AGGCTTTCCATGGACCGTTG

370842,370948,107

371400,371460,61

371807,371893,87

372393,372512,120

373328,373565,238

373977,374155,179

374653,374790,138

376086,376316,231

376637,376894,258

377131,377256,126

377637,377795,159

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_019740 + 16 GCGTTCGCGATGCCAACAGA

396513,397488,976,END:Starts:395088-395117-397191-

397908,398347,440,EXACT,AG-GT

398565,398719,155,EXACT,AG-GT

398978,399200,223,EXACT,AG-GT

399630,399740,111,EXACT,AG-GT

400094,400222,129,EXACT,AG-GT

400625,400753,129,EXACT,AG-GT

401269,401322,54,EXACT,AG-GT

401551,401583,33,START: end 138 AG-GT (ref:AG-GT)<< Possible error

402073,402122,50,EXACT,AG-GT

402460,402514,55,EXACT,AG-GT

403042,403163,122,START: end -12 AG

403817,403993,177,END: start -1 GT (ref:AG-GT)<< Possible error

404530,404638,109,START: end -21 AG

405187,405297,111,END: start -1 GT (ref:AG-GT)<< Possible error

405573,405746,174,START:EXACT

>> RNA-Seq evidence = 16/16 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_019760 + 17 TCACTACCGATGGCGAAGGA

425956,428097,2142

428464,429448,985,OVER: start -1650 and end 883 AG-GT (ref:AG-GT)<< Possible error

429676,430331,656,END: start -2862 AG-GT (ref:AG-GT)<< Possible error

430653,431111,459,EXACT,AG-GT

431474,431643,170,EXACT,AG-GT

431980,432323,344,EXACT,AG-GT
 432603,432901,299,EXACT,AG-GT
 433060,433988,929
 434448,434969,522
 435236,435607,372
 436068,436399,332
 436748,437023,276
 437516,439050,1535
 439424,439644,221
 439771,440200,430
 440737,440793,57
 440924,442009,1086

>> RNA-Seq evidence = 5/17 (29.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_019770 + 6 CTATACTTGATGGAGAAAAG

444615,444795,181,END:EXACT
 444936,445075,140,EXACT,AG-GT
 445237,445770,534,EXACT,AG-GT
 445882,446059,178,EXACT,AG-GT
 446189,446468,280,EXACT,AG-GT
 446566,446815,250,START:EXACT

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_019770 + 6 CTATACTTGATGGAGAAAAG VIIa A..ATG

443615,444527,913,5' UTR
 444528,444795,268,GT,END:EXACT,Old start=444615 (+ 1000)

444936,445075,140,INTERNAL,EXACT,AG-GT
 445237,445770,534,INTERNAL,EXACT,AG-GT
 445882,446059,178,INTERNAL,EXACT,AG-GT
 446189,446468,280,INTERNAL,EXACT,AG-GT
 446566,446815,250,AG,START:EXACT,Old end=446815 (-1000)
 446816,447815,1000,3' UTR

#####

ID=NCLIV_019790 + 7 ACATGTGACATGAATCTCGT

459946,459954,9
 460015,460104,90
 460157,460210,54
 460269,460330,62
 460386,460518,133
 460563,460637,75
 460699,460719,21

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_019820 - 5 AACCCGCAAATGGATCATCT

478123,478243,121,END:Starts:477216-476871-477186-
 478927,479153,227,EXACT,AG-GT
 479624,479800,177,EXACT,AG-GT
 480311,480521,211,START: end 7932 GT
 480963,481051,89,OVER:Ends:488453-483523-494401-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_019820 - 5 AACCCGCAAATGGATCATCT VIIa G..ATGG

481115,483523,2409,5' UTR
 480963,481114,152,GT,OVER:Ends:488453-483523-494401-,Old end=481051
 480311,480521,211,INTERNAL,START: end 7932 GT
 479624,479800,177,INTERNAL,EXACT,AG-GT
 478927,479153,227,INTERNAL,EXACT,AG-GT
 478123,478243,121,AG,END:Starts:477216-476871-477186-,Old start=478123
 476871,478124,1252,3' UTR

#####

ID=NCLIV_019850 + 14 GCTCTCCAGCGCGAGGCCCC

493425,493497,73,START:Ends:493497-493496-
 494320,494405,86,END: start 14 GT
 495021,495210,190,EXACT,AG-GT
 495785,495880,96,END: start -6 AG-GT
 496508,496653,146,EXACT,AG-GT
 496915,497026,112,EXACT,AG-GT
 497591,497775,185,EXACT,AG-GT
 498877,498952,76,EXACT,AG-GT
 499296,499394,99,EXACT,AG-GT
 499497,499770,274,START: end -46 AG
 500087,500141,55,END: start -2 GT
 500442,500498,57,EXACT,AG-GT
 500955,500990,36,EXACT,AG-GT
 501391,501681,291,START:Ends:503336-503399-

>> RNA-Seq evidence = 14/14 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_019860 + 11 GGGTGAGCCATGCGTTTACG

505163,505173,11,OVER:Starts:503477-504575-504784-
 505835,506216,382,OVER: start -1260 and end 9073 GT (ref:AG-GT)<< Possible error

507225,515289,8065,END: start -2650 GT (ref:AG-GT)<< Possible error
 516513,516631,119,END: start -666 AG-GT (ref:AG-GT)<< Possible error
 517532,529245,11714,END: start -369 AG-GT
 529556,529663,108,EXACT,AG-GT
 530185,530469,285,EXACT,AG-GT
 530719,531035,317,EXACT,AG-GT
 531661,531764,104,EXACT,AG-GT
 532188,532484,297,EXACT,AG-GT
 532872,532991,120,START:Ends:533618-536166-533290-

>> RNA-Seq evidence = 9/11 (81.8%)

>> Homology evidence = NONE

#####

ID=NCLIV_019920 + 7 CAATTTTGCATGGAGAGAAA

667009,667086,78,END:Starts:665925-665951-
 667337,667619,283,EXACT,AG-GT
 668118,668446,329,EXACT,AG-GT
 668802,669038,237,EXACT,AG-GT
 669415,669659,245,EXACT,AG-GT
 670324,670591,268,EXACT,AG-GT
 671019,671339,321,START:Ends:671968-672341-673254-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = 237837016 0.0 120.8 86.89 1399 Toxoplasma gondii ME49
 histone deacetylase interacting domain-containing protein

>> Alternative start codon

ID=NCLIV_019920 + 7 CAATTTTGCATGGAGAGAAA VIIa A..ATG

665951,666456,506,5' UTR
 666457,667086,630,GT,END:Starts:665925-665951-,Old start=667009
 667337,667619,283,INTERNAL,EXACT,AG-GT

668118,668446,329,INTERNAL,EXACT,AG-GT
 668802,669038,237,INTERNAL,EXACT,AG-GT
 669415,669659,245,INTERNAL,EXACT,AG-GT
 670324,670591,268,INTERNAL,EXACT,AG-GT
 671019,671339,321,AG,START:Ends:671968-672341-673254-,Old end=671339
 671340,673254,1915,3' UTR

#####

ID=NCLIV_019990 - 5 CTCGCCGCCATGCTTTCCAC
 709483,709549,67,END:EXACT
 709798,710189,392,EXACT,AG-GT
 710673,710798,126,EXACT,AG-GT
 711087,711409,323,START: end 5713 GT
 711761,712667,907,OVER:Ends:717999-717122-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_020030 + 2 GAAAACTGGATGGGAGGCGA
 738033,740994,2962,END:Starts:738347-736883-738398-
 741185,744009,2825,START:Ends:744233-744188-744530-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_020060 - 10 GCACCTGCAATGACTAGCGG
 777637,777798,162
 778052,778258,207
 778448,778513,66
 778862,778987,126
 779282,779444,163

779983,780207,225

780941,781055,115

781112,781280,169

782312,782518,207

782729,783115,387

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_020110 + 1 GACGGTGGCATGCTTGATTG

807752,808933,1182

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_020150 - 5 TCTTTCGGGATGCAGCGCCG

847523,847555,33

848139,848336,198,END: start 4 AG (ref:AC-GT)<< Possible error

848751,848859,109,EXACT,AG-GT

849345,849383,39,EXACT,AG-GT

849961,851789,1829,START:Ends:853116-852645-853125-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_020240 + 6 GGAGAACTCATGGGGCAAGC

902996,903121,126

903176,903215,40

903252,903314,63

903372,903501,130

903553,903578,26

903636,903652,17

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_020530 + 12 TCGCAGCCAATGGCGACGGG

1104845,1108609,3765,END:Starts:1104684-1104077-

1109144,1111930,2787,START: end -2765 AG

1112657,1113381,725,END: start 30 GT (ref:AG-GT)<< Possible error

1113944,1114004,61,START: end 948 AG-GT

1114734,1114952,219,END: start -790 AG-GT

1115385,1117571,2187,EXACT,AG-GT

1118044,1119480,1437,END: start 574 AG-GT (ref:AG-GT)<< Possible error

1120011,1120084,74,EXACT,AG-GT

1120595,1120862,268,EXACT,AG-GT

1121475,1121736,262,EXACT,AG-GT

1122148,1122211,64,EXACT,AG-GT

1122494,1122629,136,START:Ends:1123782-1123804-1123791-

>> RNA-Seq evidence = 12/12 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_020540 + 1 GGGTCCGTTATGAACATTAA

1125622,1125849,228

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_020560 - 5 CGCTCCGCGATGAAGGTTTC

1131278,1132533,1256

1133079,1133362,284

1134183,1135439,1257,END: start 51 AG (ref:AC-GT)<< Possible error

1135605,1135839,235,START: end 2262 GT

1136059,1137190,1132,OVER:Ends:1138060-1138193-1138101-

>> RNA-Seq evidence = 2/5 (40.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_020600 - 4 AATACACTCATGGAGAATAA

1151425,1151520,96,END:Starts:1150684-1150474-1150731-

1151742,1152049,308,EXACT,AG-GT

1152266,1152463,198,EXACT,AG-GT

1153218,1154223,1006,START:Ends:1154757-1154534-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_0207+ 8 TGACAAGAAATGAAGGGCTC

1285643,1285699,57,END:Starts:1284276-1282889-

1286425,1286755,331,END: start -439 AG-GT

1287086,1287149,64

1287363,1287465,103,START: end 626 AG-GT

1287801,1288091,291,END: start -438 AG-GT

1288435,1288620,186

1288950,1289033,84

1289738,1289887,150,START:Starts:1290434-1289738-

>> RNA-Seq evidence = 5/8 (62.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_020750 + 2 AGGAGAGAAATGCTGAGTCC

1263332,1264081,750

1264769,1265563,795

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_020800 - 15 CGCACCGCCATGTGGCTCAG

1299885,1300832,948

1301143,1301508,366

1301932,1302007,76

1302429,1302777,349

1303569,1304426,858,END: start -217 AG (ref:AC-GT)<< Possible error

1304802,1305041,240,END: start -174 AG-GT

1305650,1306019,370,EXACT,TAG|TGA|TAA:AG-GT

1306312,1306454,143,EXACT,GT

1306961,1307059,99

1307426,1307582,157

1307825,1307952,128

1308118,1308204,87

1308779,1309054,276

1309410,1309547,138

1310411,1310654,244

>> RNA-Seq evidence = 4/15 (26.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_020890 + 7 CGACACCAAATGGGGATCCT

1370782,1373479,2698

1373750,1373833,84

1374079,1374213,135

1374930,1375152,223

1375532,1375680,149

1376274,1376366,93

1377413,1377732,320

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_021000 - 6 CCACACGCGATGCTGCCGCA

1488254,1488400,147,END:Starts:1486178-1486182-1486170-

1488849,1488942,94,EXACT,AG-GT

1489830,1489979,150,EXACT,AG-GT

1490639,1490947,309,START: end 1025 AG-GT

1491353,1491972,620,END: start -714 AG-GT

1492560,1492730,171,START:Ends:1493530-1493785-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_021010 - 10 GTGGGGTACATGGAGGAGGC

1496399,1496467,69

1496795,1497361,567,END: start 11 AG

1497862,1499602,1741,EXACT,GT

1500058,1500407,350,EXACT,AG-GT

1500672,1501852,1181,EXACT,AG-GT

1502242,1502596,355,EXACT,AG-GT

1503067,1504660,1594,START: end -1019 GT

1504982,1505325,344,START: end 4 GT

1505528,1506214,687,END: start 7 AG (ref:AC-GT)<< Possible error

1506759,1506797,39,START:EXACT

>> RNA-Seq evidence = 9/10 (90.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_021230 + 4 GATCCTGACATGACACAACC

1683261,1684966,1706,END:Starts:1681590-1681576-1684039-

1685523,1685736,214,EXACT,ATG:AG-GT

1686127,1687117,991,START: end 8 AG-GC

1687940,1689471,1532

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = 237836736 0.0 75.8 77.87 1118 Toxoplasma gondii ME49
helicase

>> Alternative start codon

ID=NCLIV_021230 + 4 GATCCTGACATGACACAACC VIIa G..ATGG

1684039,1684241,203,5' UTR

1684242,1684966,725,GT,END:Starts:1681590-1681576-1684039-,Old start=1683261

1685523,1685736,214,INTERNAL,EXACT,ATG:AG-GT

1686127,1687117,991,INTERNAL,START: end 8 AG-GC

1687940,1689471,1532,AG,,Old end=1689471 (-1000)

1689472,1690471,1000,3' UTR

#####

ID=NCLIV_021405 + 6 TTCTGCTTCATGGAGGCGAA

1902125,1902499,375,END:Starts:1901602-1901587-1901612-

1902939,1903025,87,EXACT,AG-GT

1903402,1903490,89,EXACT,AG-GT

1903681,1903765,85,EXACT,AG-GT

1904493,1904641,149,EXACT,AG-GT

1905340,1905370,31,START:Ends:1905785-1905772-1905742-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_021405 + 6 TTCTGCTTCATGGAGGCGAA VIIa [CT]..ATG[ACT]

1901612,1902022,411,5' UTR

1902023,1902499,477,GT,END:Starts:1901602-1901587-1901612-,Old start=1902125

1902939,1903025,87,INTERNAL,EXACT,AG-GT

1903402,1903490,89,INTERNAL,EXACT,AG-GT

1903681,1903765,85,INTERNAL,EXACT,AG-GT

1904493,1904641,149,INTERNAL,EXACT,AG-GT

1905340,1905370,31,AG,START:Ends:1905785-1905772-1905742-,Old end=1905370

1905371,1905785,415,3' UTR

Leaky:ID=NCLIV_021405 + 6 TTCTGCTTCATGGAGGCGAA VIIa CTCATGG

1901612,1902124,513,5' UTR

1902125,1902499,375,GT,END:Starts:1901602-1901587-1901612-,Old start=1902125

1902939,1903025,87,INTERNAL,EXACT,AG-GT

1903402,1903490,89,INTERNAL,EXACT,AG-GT

1903681,1903765,85,INTERNAL,EXACT,AG-GT

1904493,1904641,149,INTERNAL,EXACT,AG-GT

1905340,1905370,31,AG,START:Ends:1905785-1905772-1905742-,Old end=1905370

1905371,1905785,415,3' UTR

#####

ID=NCLIV_021530 - 6 GAGGATCAAATGGCCGAAGT

2014057,2014232,176,END:Starts:2013701-2012852-

2014692,2015482,791,START: end -41 GT

2015931,2016017,87

2016644,2016730,87

2017112,2017246,135

2017945,2018450,506

>> RNA-Seq evidence = 2/6 (33.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_021550 - 2 TCTTTTGCAATGACGGCCCC

2027302,2027872,571,END:Starts:2026465-2026548-2026458-

2028439,2029178,740,START:Ends:2031742-2030579-2032351-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_021550 - 2 TCTTTTGCAATGACGGCCCC VIIa [CT]..ATG[ACT]

2029530,2030579,1050,5' UTR

2028439,2029529,1091,GT,START:Ends:2031742-2030579-2032351-,Old end=2029178

2027302,2027872,571,AG,END:Starts:2026465-2026548-2026458-,Old start=2027302

2026458,2027303,844,3' UTR

Leaky:ID=NCLIV_021550 - 2 TCTTTTGCAATGACGGCCCC VIIa TGCAATGA

2029179,2030579,1401,5' UTR

2028439,2029178,740,GT,START:Ends:2031742-2030579-2032351-,Old end=2029178

2027302,2027872,571,AG,END:Starts:2026465-2026548-2026458-,Old start=2027302

2026458,2027303,844,3' UTR

#####

ID=NCLIV_021610 + 1 AGGTTTCGAGATGTCGAGACT

2071104,2073440,2337

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_021650 + 10 TCTTCTCGGATGGCGGGAGC

2112972,2114431,1460,END:Starts:2111359-2111474-2111975-
 2114845,2115001,157,START: end 1944 AG-GT
 2115425,2116945,1521,END: start -580 AG-GT
 2117494,2117548,55,START: end -10 AG
 2118132,2118302,171,END: start -425 GT
 2118954,2119102,149,EXACT,AG-GT
 2119429,2119530,102,EXACT,AG-GT
 2120893,2120979,87,EXACT,AG-GT
 2121316,2121486,171,EXACT,AG-GT
 2122192,2122323,132,START:Ends:2126634-2124510-2125878-

>> RNA-Seq evidence = 10/10 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_021700 - 3 CCGACGGGAATGACCACGCT
 2136857,2138865,2009
 2139074,2140691,1618
 2141441,2143360,1920

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_021710 + 1 GAGACTGCCATGTTACGCGA
 2149153,2150787,1635

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_021770 + 14 GCCGGCGAGATGACGGGAGC
 2213958,2213986,29,END:EXACT

2214499,2214640,142,EXACT,AG-GT
 2215095,2215166,72,EXACT,AG-GT
 2215612,2215751,140,EXACT,AG-GT
 2216048,2216141,94,EXACT,AG-GT
 2216441,2216551,111,EXACT,AG-GT
 2216945,2217124,180,EXACT,AG-GT
 2217648,2217773,126,EXACT,AG-GT
 2218290,2218502,213,EXACT,AG-GT
 2218923,2219007,85,EXACT,AG-GT
 2219495,2219586,92,EXACT,AG-GT
 2220144,2220281,138,EXACT,AG-GT
 2220857,2220907,51,EXACT,AG-GT
 2221563,2221637,75,START:Ends:2223463-2223459-

>> RNA-Seq evidence = 14/14 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_021840 + 5 GGACCTGCCATGCCAAAACA

2301121,2301744,624

2301801,2301963,163

2302018,2302105,88

2302167,2302357,191

2302414,2302721,308

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_021860 - 4 CTAGATGGTATGAGAGGGTC

2310313,2310816,504,END:EXACT

2311064,2311369,306,EXACT,AG-GT

2311482,2311746,265,EXACT,AG-GT

2311922,2312208,287,START:Starts:2313905-2311922-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = 237836580 0.0 74.9 80.30 1003 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_021900 - 3 AAAAACTCAATGGCCCCTTG

2340740,2341290,551

2341428,2341787,360

2342270,2345456,3187

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_022020 + 2 ACCGTCGGCATGTGCGCAGT

2443480,2446958,3479,END:Starts:2444703-2442869-

2447158,2447434,277,START:Starts:2447158-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_022020 + 2 ACCGTCGGCATGTGCGCAGT VIIa [CT]..ATG[ACT]

2444703,2444970,268,5' UTR

2444971,2446958,1988,GT,END:Starts:2444703-2442869-,Old start=2443480

2447158,2447434,277,AG,START:Starts:2447158-,Old end=2447434 (-1000)

2447435,2448434,1000,3' UTR

Leaky:ID=NCLIV_022020 + 2 ACCGTCGGCATGTGCGCAGT VIIa
AGGGATGC

2444703,2444988,286,5' UTR

2444989,2446958,1970,GT,END:Starts:2444703-2442869-,Old start=2443480

2447158,2447434,277,AG,START:Starts:2447158-,Old end=2447434 (-1000)

2447435,2448434,1000,3' UTR

#####

ID=NCLIV_022050 + 6 TTTCTCGCCATGCCGACAAG

2462736,2462858,123,END:Starts:2461767-2461800-2462676-

2463468,2463783,316,EXACT,AG-GT

2464210,2464260,51,EXACT,AG-GT

2464590,2464735,146,EXACT,AG-GT

2465134,2465199,66,EXACT,AG-GT

2465721,2465864,144,START:Ends:2468043-2468037-2469800-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_022100 + 4 TTTTCGGCTATGTGGCCTTT

2503305,2503564,260,END:Starts:2502015-2502004-2502026-

2503875,2503948,74,EXACT,AG-GT

2504499,2504559,61,START: end 404 AG

2504891,2504912,22,OVER:Ends:2505205-2504959-2504963-

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_022130 - 1 CTGTACGCGATGCCTGGCCA

2522190,2525432,3243

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_022150 - 5 CGTTTCCCGATGGAGGACGC

2539300,2539362,63,END:Starts:2538599-2538601-2538611-
2539738,2539832,95,EXACT,AG-GT
2540302,2540967,666,EXACT,TAGTGAITAA:AG-GT
2541650,2541717,68,EXACT,AG-GT
2542095,2542321,227,START:Ends:2542741-2542732-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_022260 + 13 TCTGTCGAGATGCTCAGCGG

2629693,2629816,124,END:EXACT
2630641,2630859,219,EXACT,AG-GT
2631421,2632062,642,EXACT,AG-GT
2632531,2632636,106,EXACT,AG-GT
2632927,2633055,129,EXACT,AG-GT
2633285,2633336,52,EXACT,AG-GT
2634054,2634107,54,EXACT,AG-GT
2634809,2634910,102,EXACT,AG-GT
2635112,2635274,163,EXACT,AG-GT
2635721,2635891,171,EXACT,AG-GT
2636430,2636664,235,EXACT,AG-GT
2637036,2637144,109,EXACT,AG-GT
2637368,2637418,51,START:Ends:2642224-2638903-

>> RNA-Seq evidence = 13/13 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_022350 + 6 GGAAACGAAATGCCTGGTCC

2711303,2711498,196,END:Starts:2710820-2710702-
2712068,2712580,513,EXACT,AG-GT

2712764,2712909,146,START: end 3 AG
 2713510,2713569,60,END: start -180 GT
 2713776,2714295,520,EXACT,AG-GT
 2714505,2715094,590,START:Ends:2715340-2714568-2715494-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_022390 - 11 TCCTCTTCGATGGCCGCAAC

2763942,2764254,313
 2764767,2764921,155,EXACT,AG
 2765449,2765607,159,EXACT,AG-GT
 2765927,2766013,87,EXACT,AG-GT
 2766612,2766875,264,START: end 5 GT
 2767384,2767608,225,END: start 7 AG (ref:AC-GT)<< Possible error
 2768007,2769194,1188,EXACT,AG-GT
 2769451,2769550,100,EXACT,AG-GT
 2770840,2770944,105,EXACT,AG-GT
 2771274,2771500,227,EXACT,AG-GT
 2772428,2773876,1449,START:Ends:2778006-2777497-2780489-

>> RNA-Seq evidence = 10/11 (90.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_0224+ 4 TCCGCACTCATGGCGCTCAA

2826291,2826414,124,END:Starts:2825159-2825142-2825316-
 2826920,2826942,23,EXACT,AG-GT
 2827946,2828189,244,START: end -120 AG-GC (ref:AG-GT)<< Possible error
 2828477,2830473,1997,START:Ends:2830554-2831299-2830987-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_022410 + 1 GCAGAGGCGATGAAGAGAAA

2788536,2790761,2226,OVER:Ends:2793381-2792605-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_022440 - 7 GGCCGGCAAATGGGACGGAA

2804161,2808417,4257,END:Starts:2802336-2802284-

2808671,2808736,66,EXACT,AG-GT

2809190,2809362,173,EXACT,AG-GT

2809708,2809812,105,EXACT,AG-GT

2810241,2812562,2322,EXACT,AG-GT

2813100,2813496,397,START: end 4303 GT

2813979,2815730,1752,OVER:Ends:2819663-2817574-2817799-

>> RNA-Seq evidence = 6/7 (85.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_022580 + 10 TCTTCCGGCATGTCGTCTGC

2919789,2920079,291

2920973,2921602,630,EXACT,GT

2922132,2922183,52,EXACT,AG-GT

2922711,2922780,70,EXACT,AG-GT

2923126,2923165,40,EXACT,AG-GT

2923510,2923574,65,EXACT,AG-GT

2924024,2924084,61,EXACT,AG-GT

2924555,2924633,79,EXACT,AG-GT

2925667,2925733,67,EXACT,AG-GT

2926204,2926264,61

>> RNA-Seq evidence = 8/10 (80.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_022580 + 10 TCTTCCGGCATGTCGTCTGC VIIa [CT]..ATG[ACT]

2918789,2918819,31,5' UTR

2918820,2920079,1260,GT,,Old start=2919789 (+ 1000)

2920973,2921602,630,INTERNAL,EXACT,GT

2922132,2922183,52,INTERNAL,EXACT,AG-GT

2922711,2922780,70,INTERNAL,EXACT,AG-GT

2923126,2923165,40,INTERNAL,EXACT,AG-GT

2923510,2923574,65,INTERNAL,EXACT,AG-GT

2924024,2924084,61,INTERNAL,EXACT,AG-GT

2924555,2924633,79,INTERNAL,EXACT,AG-GT

2925667,2925733,67,INTERNAL,EXACT,AG-GT

2926204,2926264,61,AG,,Old end=2926264 (-1000)

2926265,2927264,1000,3' UTR

Leaky:ID=NCLIV_022580 + 10 TCTTCCGGCATGTCGTCTGC VIIa
[CT]..ATG[ACT]

2918789,2918834,46,5' UTR

2918835,2920079,1245,GT,,Old start=2919789 (+ 1000)

2920973,2921602,630,INTERNAL,EXACT,GT

2922132,2922183,52,INTERNAL,EXACT,AG-GT

2922711,2922780,70,INTERNAL,EXACT,AG-GT

2923126,2923165,40,INTERNAL,EXACT,AG-GT

2923510,2923574,65,INTERNAL,EXACT,AG-GT

2924024,2924084,61,INTERNAL,EXACT,AG-GT

2924555,2924633,79,INTERNAL,EXACT,AG-GT

2925667,2925733,67,INTERNAL,EXACT,AG-GT

2926204,2926264,61,AG,,Old end=2926264 (-1000)

2926265,2927264,1000,3' UTR

#####

ID=NCLIV_022610 + 7 TGTCTACTGATGGCGGAAAA

2951356,2951509,154,END:Starts:2951319-2950989-2951011-

2952032,2952200,169,EXACT,AG-GT

2952383,2952443,61,EXACT,AG-GT

2953143,2953247,105,EXACT,AG-GT

2953899,2953942,44,EXACT,AG-GT

2954384,2954489,106,START: end -2 AG

2955095,2955169,75,OVER:Ends:2955624-2955552-

>> RNA-Seq evidence = 6/7 (85.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_022630 - 31 CAAGCCCCGATGGCCCAAGT

2969504,2969601,98

2970018,2970093,76

2970447,2970598,152

2971073,2971468,396

2971893,2972222,330

2972491,2973030,540

2973799,2974729,931

2975313,2975518,206

2975802,2975898,97

2975992,2976021,30

2976251,2976627,377

2977003,2977264,262

2977861,2977934,74

2978542,2978744,203
2979052,2979167,116
2979320,2979387,68
2979827,2979935,109
2980397,2980591,195
2980939,2981007,69
2981509,2981548,40
2982094,2982218,125
2984534,2984650,117
2985200,2985316,117
2985599,2985682,84
2988404,2988478,75
2990334,2990397,64
2991394,2991463,70
2991904,2992183,280
2992397,2992444,48
2992832,2992901,70
2993072,2993178,107

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_022690 - 4 TTAGCAGAGATGCGCGCAA

3038345,3038499,155,END:EXACT

3039012,3039155,144,END: start -352 AG-GT

3039688,3040208,521,EXACT,Info:TAG|TGA|TAA:AG-GT-AG-GT-

3040345,3040469,125,START:EXACT

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_022690 - 4 TTAGCAGAGATGCGCGCAAA VIIa [CT]..ATG[ACT]

3040782,3041469,688,5' UTR

3040345,3040781,437,GT,START:EXACT,Old end=3040469 (-1000)

3039688,3040208,521,INTERNAL,EXACT,Info:TAG|TGA|TAA:AG-GT-AG-GT-

3039012,3039155,144,INTERNAL,END: start -352 AG-GT

3038345,3038499,155,AG,END:EXACT,Old start=3038345 (+ 1000)

3037345,3038346,1000,3' UTR

Leaky:ID=NCLIV_022690 - 4 TTAGCAGAGATGCGCGCAAA VIIa G..ATGG

3040692,3041469,778,5' UTR

3040345,3040691,347,GT,START:EXACT,Old end=3040469 (-1000)

3039688,3040208,521,INTERNAL,EXACT,Info:TAG|TGA|TAA:AG-GT-AG-GT-

3039012,3039155,144,INTERNAL,END: start -352 AG-GT

3038345,3038499,155,AG,END:EXACT,Old start=3038345 (+ 1000)

3037345,3038346,1000,3' UTR

#####

ID=NCLIV_022760 - 1 TTGTACGCTATGACAGGAAG

3115118,3115720,603

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_022790 + 9 GTTTCCGGCATGAGGGAAGC

3125050,3125541,492,END:Starts:3123431-3122961-

3126062,3126163,102

3126808,3126930,123

3127582,3127813,232

3128509,3128813,305

3129301,3129324,24

3130121,3130308,188,EXACT,AG-GT

3131061,3131460,400,EXACT,AG-GT

3131931,3132002,72,START:Ends:3132147-3132746-3132732-

>> RNA-Seq evidence = 4/9 (44.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_022810 - 1 TTATCATAAATGGCGCCCA

3167967,3169136,1170

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_022830 - 5 AACGCAGCAATGCCGGGACC

3179786,3179931,146

3180485,3181483,999,START: end 632 AG-GT

3182013,3182115,103,END: start -1528 AG-GT

3182425,3182583,159,EXACT,GT

3182880,3182984,105

>> RNA-Seq evidence = 3/5 (60.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_022870 + 3 CGGTTCGAAATGCAGGTGCC

3224885,3225135,251

3225759,3225912,154

3226085,3226189,105

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_022890 + 9 ACGCAGTGTATGGGCCTCGA

3233594,3235038,1445,END:Starts:3232751-3232831-

3235382,3235772,391,EXACT,AG-GT

3236342,3236422,81,EXACT,AG-GT

3236768,3237079,312,START: end -298 AG

3237703,3237780,78

3238154,3238201,48

3238757,3238831,75,EXACT,AG-GT

3239355,3239415,61,EXACT,AG-GT

3239867,3240192,326,START:Ends:3240484-3240429-3242431-

>> RNA-Seq evidence = 7/9 (77.8%)

>> Homology evidence = 237836370 0.0 88.8 76.34 1079 Toxoplasma gondii ME49 TPR domain-containing protein

>> Alternative start codon

ID=NCLIV_022890 + 9 ACGCAGTGTATGGGCCTCGA VIIa A..ATG

3232831,3233296,466,5' UTR

3233297,3235038,1742,GT,END:Starts:3232751-3232831-,Old start=3233594

3235382,3235772,391,INTERNAL,EXACT,AG-GT

3236342,3236422,81,INTERNAL,EXACT,AG-GT

3236768,3237079,312,INTERNAL,START: end -298 AG

3237703,3237780,78,INTERNAL,

3238154,3238201,48,INTERNAL,

3238757,3238831,75,INTERNAL,EXACT,AG-GT

3239355,3239415,61,INTERNAL,EXACT,AG-GT

3239867,3240192,326,AG,START:Ends:3240484-3240429-3242431-,Old end=3240192

3240193,3242431,2239,3' UTR

#####

ID=NCLIV_022920 + 9 TCTGACCCTATGGACACACG

3248482,3248845,364,OVER:Starts:3247497-3247545-3248030-

3249301,3249673,373,END: start 150 AG-GT (ref:AG-GT)<< Possible error
 3250294,3250450,157,EXACT,AG-GT
 3250835,3250982,148,EXACT,AG-GT
 3251444,3251545,102,EXACT,AG-GT
 3252031,3252191,161,EXACT,AG-GT
 3252667,3252769,103,EXACT,ATG:AG-GT
 3253085,3253188,104,EXACT,AG-GT
 3253623,3253856,234,START:Ends:3254836-3254737-

>> RNA-Seq evidence = 8/9 (88.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_022930 + 3 ACGGCCCAATGGCCACGCT

3255891,3256050,160,OVER:Starts:3255784-3255786-3255876-

3256822,3257063,242,END: start -1036 GT (ref:AG-GT)<< Possible error

3257722,3257856,135,START:Ends:3258412-3258332-3263492-

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_022940 + 5 GCAGTGCAAATGGCCCCTCG

3259873,3259930,58

3260378,3260629,252

3261495,3268443,6949

3268753,3268846,94

3269033,3269965,933

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_022960 - 6 CGCAGGGACATGCCCCGGCA

3276615,3276750,136,END:EXACT

3277260,3277343,84,EXACT,AG-GT

3277979,3278114,136,START: end 27 GT

3279499,3279607,109

3280182,3280261,80

3280953,3281652,700

>> RNA-Seq evidence = 3/6 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_022980 + 15 CAAAACGCGATGCGGTCCGGT

3292981,3293204,224,END:Starts:3290982-3290986-3290991-

3293497,3293703,207,EXACT,AG-GT

3294102,3294240,139,EXACT,AG-GT

3294797,3294985,189,START: end -6 AG

3295368,3295632,265,END: start -29 GT (ref:AG-GT)<< Possible error

3295890,3296032,143,EXACT,AG-GT

3296298,3296483,186,EXACT,AG-GT

3297155,3297239,85,START: end -48 AG

3297610,3297679,70,OVER: start -43 and end 30 GC (ref:AG-GT)<< Possible error

3298060,3298558,499,EXACT,AG-GT

3299023,3299234,212,EXACT,AG-GT

3299879,3299948,70,EXACT,AG-GT

3300333,3300499,167,EXACT,AG-GT

3300830,3301006,177,EXACT,AG-GT

3301573,3301597,25,START:Ends:3301587-3302095-

>> RNA-Seq evidence = 14/15 (93.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_023090 + 9 CTTTCAGCAATGAGAGGCGT

3373309,3373389,81,OVER:Starts:3372868-3372863-

3374199,3374210,12,END: start -1336 GT

3374593,3374724,132,EXACT,AG-GT

3375135,3375255,121,EXACT,TAG|TGA|TAA:AG-GT

3376228,3376422,195,EXACT,AG-GT

3376575,3376750,176,EXACT,AG-GT

3377294,3377393,100,EXACT,AG-GT

3377637,3377861,225,EXACT,AG-GT

3378029,3378117,89,START:Ends:3378513-3378531-3378520-

>> RNA-Seq evidence = 8/9 (88.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_023100 - 5 TCCGGACCAATGGCCAGTCG

3382158,3382592,435,END:EXACT

3383338,3383423,86,EXACT,AG-GT

3383849,3383960,112,EXACT,AG-GT

3384456,3384604,149,EXACT,AG-GT

3385300,3385780,481

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_023170 + 7 TCGCCCTCGATGGCCAGCAG

3432661,3433800,1140,OVER:Ends:3433800-3434030-

3434226,3434432,207,END: start 22 GT

3435038,3435193,156,EXACT,AG-GT

3435715,3435804,90,START: end -2 AG

3436057,3436377,321,END: start 10 GT

3436809,3437425,617,START: end -15 AG

3437661,3437709,49

>> RNA-Seq evidence = 5/7 (71.4%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_023170 + 7 TCGCCCTCGATGGCCAGCAG VIIa A..ATG

3431661,3432588,928,5' UTR

3432589,3433800,1212,GT,OVER:Ends:3433800-3434030-,Old start=3432661 (+ 1000)

3434226,3434432,207,INTERNAL,END: start 22 GT

3435038,3435193,156,INTERNAL,EXACT,AG-GT

3435715,3435804,90,INTERNAL,START: end -2 AG

3436057,3436377,321,INTERNAL,END: start 10 GT

3436809,3437425,617,INTERNAL,START: end -15 AG

3437661,3437709,49,AG,,Old end=3437709 (-1000)

3437710,3438709,1000,3' UTR

#####

ID=NCLIV_023180 - 1 TGACCACGAATGGAAAAGAA

3438556,3439653,1098

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_023200 - 2 TGAGCCGAGATGAGGTTCCG

3453386,3453799,414,END:Starts:3451942-3452966-3452922-

3454133,3455635,1503,START:Ends:3456113-3454172-3455569-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_023250 + 10 CCTACCGAGATGAGGAGGGG

3486993,3487734,742,END:Starts:3486553-3486474-

3488213,3488545,333,OVER: start -3 and end 1249 AG-GT

3489016,3489794,779,OVER: start -468 and end 461 GT

3490127,3490255,129,EXACT,AG

3490834,3490986,153,EXACT,AG-GT

3491133,3491219,87,EXACT,AG-GT

3491524,3491641,118,EXACT,AG-GT

3491891,3492073,183,EXACT,ATG:AG-GT

3492682,3492821,140,EXACT,AG-GT

3493299,3493727,429,START:Ends:3495069-3496010-3496095-

>> RNA-Seq evidence = 8/10 (80.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_023250 + 10 CCTACCGAGATGAGGAGGGG VIIa A..ATG

3486553,3486902,350,5' UTR

3486903,3487734,832,GT,END:Starts:3486553-3486474-,Old start=3486993

3488213,3488545,333,INTERNAL,OVER: start -3 and end 1249 AG-GT

3489016,3489794,779,INTERNAL,OVER: start -468 and end 461 GT

3490127,3490255,129,INTERNAL,EXACT,AG

3490834,3490986,153,INTERNAL,EXACT,AG-GT

3491133,3491219,87,INTERNAL,EXACT,AG-GT

3491524,3491641,118,INTERNAL,EXACT,AG-GT

3491891,3492073,183,INTERNAL,EXACT,ATG:AG-GT

3492682,3492821,140,INTERNAL,EXACT,AG-GT

3493299,3493727,429,AG,START:Ends:3495069-3496010-3496095-,Old end=3493727

3493728,3496095,2368,3' UTR

#####

ID=NCLIV_023350 + 2 GCGTGCAGATGGCGGACCT
3538021,3541008,2988
3541661,3542113,453

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_023500 - 2 TCCATCCGGATGGGCAAAGC
3665922,3666776,855
3667483,3668865,1383

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_023510 - 9 GTTCTCGCGATGTCTCTGGG
3675235,3675366,132,END:Starts:3674713-3674742-3674770-
3675868,3675975,108,EXACT,AG-GT
3676466,3676642,177,EXACT,AG-GT
3676941,3677051,111,EXACT,AG-GT
3677525,3677603,79,START: end 1 GT
3678016,3678233,218,EXACT,AG-GT
3678891,3679219,329,EXACT,AG-GT
3679694,3679817,124,EXACT,AG-GT
3680474,3680680,207,START:Ends:3681631-3680945-3681642-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_023540 - 5 CCCGTGGAAATGACGCACCT
3702297,3702449,153,END:Starts:3701650-3701745-3701743-

3702841,3702969,129,EXACT,AG-GT
 3703622,3703759,138,OVER: start -111 and end 1 GC
 3704138,3704331,194,EXACT,GT
 3704709,3705099,391

>> RNA-Seq evidence = 3/5 (60.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_023540 - 5 CCCGTGGAAATGACGCACCT VIIa [CT]..ATG[ACT]

3705754,3706099,346,5' UTR
 3704709,3705753,1045,GT,,Old end=3705099 (-1000)
 3704138,3704331,194,INTERNAL,EXACT,GT
 3703622,3703759,138,INTERNAL,OVER: start -111 and end 1 GC
 3702841,3702969,129,INTERNAL,EXACT,AG-GT
 3702297,3702449,153,AG,END:Starts:3701650-3701745-3701743-,Old start=3702297
 3701650,3702298,647,3' UTR

Leaky:ID=NCLIV_023540 - 5 CCCGTGGAAATGACGCACCT VIIa
 GGAAATGA

3705100,3706099,1000,5' UTR
 3704709,3705099,391,GT,,Old end=3705099 (-1000)
 3704138,3704331,194,INTERNAL,EXACT,GT
 3703622,3703759,138,INTERNAL,OVER: start -111 and end 1 GC
 3702841,3702969,129,INTERNAL,EXACT,AG-GT
 3702297,3702449,153,AG,END:Starts:3701650-3701745-3701743-,Old start=3702297
 3701650,3702298,647,3' UTR

#####

ID=NCLIV_023560 + 10 AGGCGAGTGATGCCTCCTTC

3715555,3715741,187,END:Starts:3714766-3715513-
 3715899,3715970,72,EXACT,AG-GT
 3716375,3716558,184,END: start -24 AG-GT

3716992,3717496,505,END: start -149 GT
3717965,3718288,324,EXACT,AG-GT
3718399,3718689,291,EXACT,AG-GT
3719189,3719888,700,EXACT,AG-GT
3720135,3720199,65,EXACT,AG-GT
3720675,3720798,124,EXACT,AG-GT
3721258,3721391,134,START:Ends:3722048-3721916-3723103-

>> RNA-Seq evidence = 10/10 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_023580 + 1 CAAAACGAAATGACAGCCGG
3729060,3732689,3630

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_023600 + 1 GTCTTGGCGATGACGGCCCG
3746062,3746682,621

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_023660 - 1 GGAGCAGACATGAGGTCGGT
3778858,3781563,2706,OVER:Ends:3783313-3782753-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_023700 + 8 TTGGGCCACATGGCTGCCAC

3819713,3821935,2223
 3822385,3822523,139,EXACT,GT
 3822936,3823431,496,EXACT,AG-GT
 3824008,3824205,198,EXACT,AG-GT
 3824728,3825053,326,START: end 797 AG-GT
 3825549,3825850,302,END: start -821 AG-GT
 3826306,3826557,252,EXACT,AG-GT
 3827019,3827117,99,OVER:EXACT

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_023750 + 3 GCCCTCGCCATGTGTGTTCA

3863887,3865738,1852

3866145,3867564,1420

3868128,3868767,640

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_023830 + 5 GCCGCGGAGATGCGGCTACA

3927453,3927963,511,END:Starts:3926528-3926518-3927690-

3928318,3929650,1333,EXACT,AG-GT

3930140,3930309,170,START: end 213 AG-GT (ref:AG-GT)<< Possible error

3930747,3930962,216,EXACT,AG-GT

3931178,3932037,860,START:Ends:3933186-3933182-3933185-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

*** **CHROMOSOME VIIIb**

#####

ID=NCLIV_023870 - 1 TACACGTCTATGGAAGGCGA
56687,60265,3579

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_023920 - 6 GCTCCTGCAATGACGTCGAG
105880,106015,136,END:Starts:104728-104741-
106618,107149,532,START: end -25 GT
107706,108284,579,END: start -149 AG
108769,109691,923,START: end 2 GT
110224,110395,172,EXACT,GT
110993,111071,79,START:Ends:112593-112591-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = 237832416 0.0 101.1 79.09 1471 Toxoplasma gondii ME49
ATP-dependent RNA helicase

#####

ID=NCLIV_023930 - 3 AGGCTTCGAATGGCGGCTAT
113548,114191,644
114475,114740,266
114910,114974,65

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_024010 - 10 TGTTGACTGATGGAATTCCA
 190564,190656,93,OVER:Starts:188731-188818-
 191221,191265,45,EXACT,ATG:AG-GT
 191387,191498,112,EXACT,AG-GT
 191599,191690,92,EXACT,AG-GT
 192123,192192,70,EXACT,AG-GT
 192312,192389,78,EXACT,AG-GT
 192487,192548,62,EXACT,AG-GT
 192675,192768,94,EXACT,AG-GT
 192867,193384,518,EXACT,AG-GT
 193765,193815,51,OVER:Ends:194290-194266-194303-

>> RNA-Seq evidence = 8/10 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_024040 - 8 GTTGGCTCAATGGAAATTGC
 203087,203313,227,END:Starts:202426-202446-202384-
 203833,204214,382,EXACT,AG-GT
 204675,204773,99,EXACT,AG-GT
 204918,205064,147,START: end -34 AG-GT
 205345,205487,143,EXACT,AG-GT
 205934,206243,310,EXACT,AG-GT
 206798,206950,153,EXACT,AG-GT
 207118,207441,324,START:Starts:207118-

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_024060 - 15 ATCGACGCCATGAAAGACCT
 219805,219816,12,OVER:Starts:219163-219147-218979-

220179,220253,75,EXACT,AG-GT
 221024,221167,144,EXACT,AG-GT
 221854,222009,156
 222610,222763,154
 223015,223101,87
 223567,223681,115
 223993,224023,31
 224071,224158,88
 224294,224414,121
 224820,224970,151
 225396,225457,62
 225743,225878,136
 226335,226493,159,END: start -5 AG
 227674,227931,258,OVER:Ends:227778-228100-

>> RNA-Seq evidence = 3/15 (20.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_024130 + 9 CAAGAATCTATGGCGCCTTC

276306,278039,1734,OVER:Starts:279964-276026-
 278464,278560,97,OVER: start -2438 and end 2263 GT
 279166,279390,225,OVER: start -3140 and end 1433 GT
 279832,279962,131,OVER: start -3806 and end 861 GT
 280414,280476,63,OVER: start -4388 and end 347 GT
 280944,281015,72,EXACT,AG-GT
 281353,281508,156,EXACT,AG-GT
 282049,282246,198,EXACT,AG-GT
 282666,283160,495,START:Ends:283632-283394-283553-

>> RNA-Seq evidence = 4/9 (44.4%)

>> Homology evidence = 237832368 0.0 87.8 80.95 1218 Toxoplasma gondii ME49
ATP-dependent RNA helicase

#####

ID=NCLIV_024160 + 1 GCCACGGAGATGCTCCTCGC
295391,296080,690

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_024170 + 1 CTACGTGCGATGTGTTTGGG
299903,300871,969

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_024200 - 1 AAAATTGCCATGAAGGCCAG
313389,313760,372

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_024210 + 12 CGCACTGACATGCGGCGCGC

314160,314226,67,END:Starts:314090-312484-

315500,315574,75,EXACT,AG-GT

316082,316317,236,EXACT,AG-GT

316934,317063,130,EXACT,AG-GT

317522,317908,387,EXACT,TAG|TGA|TAA:AG-GT

318686,318813,128,EXACT,AG-GT

319214,319313,100,EXACT,AG-GT

319818,319943,126,EXACT,AG-GT

320727,320920,194,EXACT,AG-GT
 321329,321400,72,EXACT,AG-GT
 321546,321625,80,EXACT,AG-GT
 322066,322093,28,START:Ends:322792-322836-322918-

>> RNA-Seq evidence = 12/12 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_024310 + 1 TGAATAGGAATGAAGGGGAA
 390012,390446,435

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_024330 + 14 ACAGCAGATATGTTTGACGC

402705,404296,1592,END:Starts:401701-400373-402086-

404698,406535,1838,EXACT,AG-GT

407389,407598,210

408224,409859,1636,EXACT,AG-GT

410194,411682,1489,START: end 48 AG-GC (ref:AG-GT)<< Possible error

412045,412382,338,START: end -30 AG-GC (ref:AG-GT)<< Possible error

412868,413093,226,EXACT,AG-GT

413625,413748,124,EXACT,AG-GT

413927,416598,2672,EXACT,AG-GT

416848,417252,405,START: end 527 AG-GT

417382,417713,332,OVER: start -534 and end 66 AG-GT

418114,418171,58,END: start -2 GT (ref:AG-GT)<< Possible error

418595,418690,96,EXACT,AG-GT

418892,419050,159,START:EXACT

>> RNA-Seq evidence = 12/14 (85.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_024360 + 6 GACGCAGAGATGTCGGCGGC

431234,432272,1039,END:Starts:429825-429827-429836-

432525,432647,123,EXACT,AG-GT

433157,433418,262,EXACT,AG-GT

434087,434234,148,START: end 469 AG-GT (ref:AG-GT)<< Possible error

434605,434703,99,END: start -518 AG-GT (ref:AG-GT)<< Possible error

434980,435600,621,START:Ends:436356-438771-436359-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_0245+ 9 GCAGTCCTCATGGAGAGTAA

522992,523079,88

523579,523657,79

524130,524263,134

524822,524965,144

525496,525624,129

526225,526287,63

526578,526656,79

527143,527270,128

527683,527804,122

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_024540 + 8 ACTCAAGCAATGCGGTTTCG

551055,551186,132,END:Starts:549731-549745-549760-

551416,551592,177,END: start 28 AG-GT (ref:AG-GT)<< Possible error
 552040,552194,155,EXACT,AG-GT
 552615,552711,97,EXACT,AG-GT
 553296,553378,83,EXACT,ATG:AG-GT
 553677,553767,91,EXACT,AG-GT
 554259,554544,286,EXACT,AG-GT
 554929,555290,362,START:EXACT

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_024580 - 1 GTAATCGACATGAAGGAAAC
 580389,582026,1638

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_024590 - 8 ATGTCCCAGATGGCGTCGGT

584380,584433,54,END:Starts:583973-583948-584029-

585019,585059,41,START: end 2 Info:AG-GT-acceptor=GC-ATG:AG-GT-

585403,585506,104,START: end -10 GT

587205,587286,82,EXACT,AG-GT

588202,588249,48,EXACT,AG-GT

588856,588912,57,EXACT,AG-GT

589165,589259,95,EXACT,AG-GT

589976,590136,161,START:Ends:590953-590974-

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_024590 - 8 ATGTCCCAGATGGCGTCGGT VIIb [CT]..ATG[ACT]

590146,590953,808,5' UTR

589976,590145,170,GT,START:Ends:590953-590974-,Old end=590136

589165,589259,95,INTERNAL,EXACT,AG-GT

588856,588912,57,INTERNAL,EXACT,AG-GT

588202,588249,48,INTERNAL,EXACT,AG-GT

587205,587286,82,INTERNAL,EXACT,AG-GT

585403,585506,104,INTERNAL,START: end -10 GT

585019,585059,41,INTERNAL,START: end 2 Info:AG-GT-acceptor=GC-ATG:AG-GT-

584380,584433,54,AG,END:Starts:583973-583948-584029-,Old start=584380

583948,584381,432,3' UTR

Leaky:ID=NCLIV_024590 - 8 ATGTCCCAGATGGCGTCGGT VIIb
CCAGATGG

590137,590953,817,5' UTR

589976,590136,161,GT,START:Ends:590953-590974-,Old end=590136

589165,589259,95,INTERNAL,EXACT,AG-GT

588856,588912,57,INTERNAL,EXACT,AG-GT

588202,588249,48,INTERNAL,EXACT,AG-GT

587205,587286,82,INTERNAL,EXACT,AG-GT

585403,585506,104,INTERNAL,START: end -10 GT

585019,585059,41,INTERNAL,START: end 2 Info:AG-GT-acceptor=GC-ATG:AG-GT-

584380,584433,54,AG,END:Starts:583973-583948-584029-,Old start=584380

583948,584381,432,3' UTR

#####

ID=NCLIV_024650 + 4 TTAGGCTCGATGGCATCGGA

620314,620629,316,END:Starts:619451-617987-

620810,620883,74,EXACT,AG-GT

621068,621154,87,EXACT,AG-GT

621426,621653,228,START:Ends:622297-622468-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_024680 + 3 TATGGTGCATGTATCGCGG

647057,647115,59,WITHIN:Ends:647107-647105-647473-

647323,647473,151,END: start -67 AG-GT (ref:AG-GT)<< Possible error

647817,648179,363,START:Ends:648617-648692-648633-

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_024690 + 1 GCTGCGCAGATGGGAGAAGC

652051,654852,2802

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_024710 - 1 GTCCTCTTCATGGAGGAAGA

667721,670774,3054,OVER:Ends:665966-670831-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_024730 - 8 TTGCGGCAGATGGGGCGCTT

686295,686538,244

686935,687144,210

687597,687728,132

687892,688028,137

688385,688499,115

689131,689240,110

689631,689807,177

690225,690317,93,OVER:Starts:689520-693005-690169-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_024770 - 15 CCTTCACCCATGGCGCCAAC

717388,717738,351,END:EXACT

718031,718092,62,EXACT,AG-GT

718431,718506,76,EXACT,AG-GT

718659,718929,271,EXACT,AG-GT

719061,719137,77,EXACT,AG-GT

719509,719685,177,EXACT,AG-GT

720366,720437,72,END: start -42 AG-GC (ref:AC-GT)<< Possible error

720890,721226,337,EXACT,AG-GT

721482,721744,263,EXACT,AG-GT

722212,722358,147,EXACT,AG-GT

722862,723008,147,EXACT,AG-GT

723573,723668,96,EXACT,AG-GT

723912,724001,90,EXACT,AG-GT

724983,726634,1652,START: end 3066 GT

726941,727196,256,OVER:Ends:727939-729700-

>> RNA-Seq evidence = 14/15 (93.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_024860 - 18 TGTGTCGCGATGTCCGCCGG

780262,780714,453,END:EXACT

781038,781107,70,EXACT,AG-GT

781584,781635,52,EXACT,AG-GT

782049,782652,604,EXACT,AG-GT
782939,783102,164,EXACT,AG-GT
783475,783634,160,EXACT,AG-GT
783921,784031,111,EXACT,AG-GT
784481,784553,73,START: end 29 AG-GT
785259,785451,193,END: start -19 AG-GT
785890,786139,250,EXACT,AG-GT
786692,786795,104,EXACT,AG-GT
787062,787131,70,EXACT,AG-GT
787987,788174,188,EXACT,AG-GT
788492,788828,337,EXACT,AG-GT
789581,789786,206,EXACT,AG-GT
790066,790185,120,EXACT,AG-GT
790570,790739,170,EXACT,TAG|TGA|TAA:AG-GT
791471,791691,221,START:Ends:792541-792562-

>> RNA-Seq evidence = 18/18 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_024930 - 3 TTGAGACAAATGGAGCCGTG

819849,820590,742,END:EXACT

821133,821175,43,EXACT,AG-GT

821485,825262,3778,START:Ends:826416-825517-826608-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_024980 + 18 ACAGCAGAAATGAGGCTGCT

850656,851012,357

851067,851118,52

851183,851280,98
851333,851391,59
851446,851483,38
851535,851659,125
851721,851773,53
851832,851847,16
851906,851975,70
852039,852045,7
852105,852201,97
852257,852343,87
852408,852494,87
852554,852595,42
852654,852740,87
852800,852816,17
852889,852902,14
852961,853061,101

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_024990 - 3 ACGTCGGCAATGTCGCGCGG

863470,863526,57,END:Starts:862806-862960-862995-

863916,864023,108,EXACT,AG-GT

864723,864896,174,START:Ends:867247-865784-865787-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_025010 - 5 GTCTAAGCAATGCAAGAGTC

877063,877304,242,END:Starts:875503-876912-874106-

877712,877914,203,EXACT,AG-GT
878343,878552,210,EXACT,AG-GT
878696,878981,286,EXACT,AG-GT
879285,879357,73,START:EXACT

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_025181 - 1 GCAGGAGGCATGCTTCGGCA
1024996,1025868,873

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_025200 - 7 AAAGCAGCCATGAGAACTGC
1036554,1036715,162,END:Starts:1036004-1036122-1036148-
1037130,1037229,100,EXACT,AG-GT
1037495,1037931,437,START: end 112 GT
1038530,1038760,231
1039097,1039377,281
1039615,1039884,270
1040152,1041040,889

>> RNA-Seq evidence = 3/7 (42.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_025230 - 5 GGGAACGGCATGCTTTCCAT
1055855,1056175,321
1056618,1056761,144
1056875,1056955,81

1057597,1057680,84

1058002,1058154,153

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_025260 - 1 GAAAGACAAATGGGACAAAG

1077300,1080146,2847

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_0253+ 2 TTGAGCGTGATGCGCGGCAG

1140659,1141729,1071

1142240,1143061,822

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_025320 - 5 CTTTCCGTCATGAATTTTCT

1135061,1135164,104

1135933,1136018,86

1136443,1136492,50,END: start 14 AG

1136838,1137015,178,EXACT,AG-GT

1137502,1138001,500,START:Ends:1137921-1138545-

>> RNA-Seq evidence = 3/5 (60.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_025500 - 8 TCCCGGCGAATGGAGGCGCC

1282002,1282034,33,END:Starts:1281724-1281702-1281627-
 1282288,1282364,77,EXACT,ATG:AG-GT
 1282661,1283406,746,EXACT,AG-GT
 1284255,1284446,192,EXACT,AG-GT
 1284914,1285416,503,EXACT,AG-GT
 1285691,1286270,580,EXACT,AG-GT
 1286664,1286864,201,START: end 1530 GT
 1287147,1287640,494,OVER:Ends:1288394-1287138-1289414-

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_025570 + 8 GACAGGCAAATGGAAGAGAG

1327724,1328684,961,END:Starts:1326804-1326859-1328020-
 1329198,1329831,634,START: end 199 AG
 1330243,1330339,97
 1331056,1331215,160
 1331896,1332236,341
 1332525,1332852,328,END: start 41 GT (ref:AG-GT)<< Possible error
 1333181,1333379,199,EXACT,AG
 1333491,1333752,262

>> RNA-Seq evidence = 4/8 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_025610 - 4 CGGATTTTATGGCGGCGCA

1354858,1355057,200,END:Starts:1352907-1352895-1352794-
 1355341,1355386,46,EXACT,AG-GT
 1355807,1356023,217,EXACT,AG-GT
 1356692,1357026,335,START:Ends:1358734-1358074-1358560-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_025640 + 2 GCTTGGCAAATGGCCAACTT
 1377543,1378360,818,OVER:EXACT
 1378717,1379950,1234,START:Ends:1380954-1378779-1387207-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_025640 + 2 GCTTGGCAAATGGCCAACTT VIIb A..ATG
 1376543,1377473,931,5' UTR
 1377474,1378360,887,GT,OVER:EXACT,Old start=1377543 (+ 1000)
 1378717,1379950,1234,AG,START:Ends:1380954-1378779-1387207-,Old end=1379950
 1379951,1387207,7257,3' UTR

#####

ID=NCLIV_025680 + 8 GTTGTTCCCATGGCCCTCCA
 1412726,1413355,630,OVER:Starts:1413977-1411277-1411101-
 1413977,1414070,94,END: start -2700 GT (ref:AG-GT)<< Possible error
 1414348,1414497,150,EXACT,AG-GT
 1415112,1415238,127,START: end 76 AG-GT
 1415296,1415314,19,END: start -184 AG-GT
 1415571,1415972,402,EXACT,AG-GT
 1416327,1417194,868,EXACT,AG-GT
 1417663,1417856,194,START:Ends:1419524-1421823-1422110-

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_025720 + 9 CCTTCGTCAATGGTCGGCAG
 1453358,1453383,26
 1453895,1454025,131
 1454243,1454733,491
 1455616,1455687,72
 1455787,1455872,86
 1456226,1456306,81,EXACT,GT
 1456577,1456704,128,START: end 702 AG-GT (ref:AG-GT)<< Possible error
 1457192,1457406,215,END: start -615 AG-GT (ref:AG-GT)<< Possible error
 1457950,1458222,273,START:Ends:1459188-1459197-1459187-

>> RNA-Seq evidence = 4/9 (44.4%)

>> Homology evidence = 237832020 0.0 67.6 81.96 1002 Toxoplasma gondii ME49
 ethanolaminephosphotransferase

#####

ID=NCLIV_025780 + 2 CGTGCGGCGATGACACAATT
 1499193,1499546,354
 1499600,1499668,69

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_025800 - 11 CTTCGCGCCATGCCTCGAGC
 1504512,1504625,114,END:Starts:1503940-1503844-1503877-
 1505310,1505684,375,START: end -3 GT
 1505870,1507164,1295
 1507641,1508419,779
 1508678,1508788,111
 1509022,1509139,118
 1509560,1509777,218

1510131,1510217,87

1510854,1510963,110,END: start -3 AG

1511595,1511727,133,EXACT,AG-GT

1512121,1513118,998,START:Ends:1512439-1513340-

>> RNA-Seq evidence = 5/11 (45.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_025820 - 5 TCATCTCTGATGGAGGGCAT

1521629,1523227,1599,END:Starts:1523079-1521399-

1523759,1523854,96

1524063,1528297,4235,EXACT,Code:INTERNAL-

1528695,1529297,603,START: end 48 GT

1530067,1531459,1393

>> RNA-Seq evidence = 3/5 (60.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_025880 + 5 CATTCCACATGGTCTTCGG

1550168,1550332,165

1550385,1550467,83,END: start -18 AG-GT

1550813,1551539,727,END: start 216 GT

1552037,1555015,2979,EXACT,AG-GT

1555400,1555558,159,START:Ends:1555823-1556051-1555791-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_025940 + 2 AGCGCTTCATGGCGGATGG

1585114,1585366,253,END:Starts:1584698-1584739-1584826-

1585537,1585673,137,START:Ends:1586383-1586392-1586391-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_025950 - 1 GTGTCATACATGGAGGGCAG

1586702,1588645,1944

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_026000 + 7 GAGACAGCGATGCGCAAAAA

1620381,1620506,126,END:EXACT

1620862,1621367,506,EXACT,AG-GT

1621627,1626767,5141,EXACT,AG-GT

1627239,1627770,532,EXACT,AG-GT

1628055,1628139,85,EXACT,AG-GT

1628654,1628729,76,EXACT,AG-GT

1628971,1629191,221,START:EXACT

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_026040 - 12 TTCCACTCATGGCAGACGC

1645885,1645926,42,END:Starts:1645582-1645580-1645583-

1646100,1646218,119,EXACT,AG-GT

1646386,1646533,148,EXACT,AG-GT

1647067,1647199,133,EXACT,AG-GT

1647791,1647977,187,EXACT,AG-GT

1648343,1648533,191,EXACT,AG-GT

1649037,1649209,173,EXACT,AG-GT
 1649469,1649562,94,EXACT,AG-GT
 1649907,1650030,124,EXACT,AG-GT
 1650309,1650414,106,EXACT,AG-GT
 1650853,1651044,192,EXACT,AG-GT
 1651524,1651631,108,START:Ends:1652184-1652166-

>> RNA-Seq evidence = 12/12 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_026060 + 2 AGGAAGGTGATGAGATTCGG

1660679,1660761,83

1660888,1661635,748

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_026120 - 8 CTTGCCGGCATGCGGTCTCC

1696927,1697084,158

1697556,1697706,151,END: start 35 AG (ref:AC-GT)<< Possible error

1698058,1698199,142,START: end 4 GT

1698522,1698879,358,EXACT,AG-GT

1699437,1699624,188,EXACT,AG-GT

1700346,1700436,91,EXACT,AG-GT

1700963,1701111,149,EXACT,AG-GT

1701243,1704964,3722,START:Ends:1708152-1706202-1708064-

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_026170 - 3 TCTTCCCAGATGGAGGGCGG

1741575,1741672,98,END:Starts:1740195-1740230-1738396-

1742212,1742359,148,EXACT,TAG|TGA|TAA:AG-GT

1742735,1742926,192,START:EXACT

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_026200 + 18 TTGCCCGAAATGCAGTTCGT

1765249,1765516,268,END:EXACT

1765821,1766291,471,EXACT,AG-GT

1766672,1766992,321,START: end -13 AG

1767401,1767649,249,END: start 17 AG-GT (ref:AG-GT)<< Possible error

1768463,1768678,216,EXACT,AG-GT

1769036,1769419,384,EXACT,AG-GT

1770242,1770631,390,EXACT,AG-GT

1770946,1771192,247,EXACT,AG-GT

1771996,1772992,997,EXACT,AG-GT

1773529,1774285,757,EXACT,AG-GT

1774921,1775029,109,EXACT,AG-GT

1775664,1776275,612,EXACT,AG-GT

1776989,1777205,217,EXACT,AG-GT

1777949,1778453,505,EXACT,AG-GT

1778730,1780353,1624,EXACT,AG-GT

1780767,1780839,73,EXACT,AG-GT

1781437,1782860,1424,EXACT,ATG:AG-GT

1783294,1783432,139,START:Ends:1784164-1784229-

>> RNA-Seq evidence = 18/18 (100.0%)

>> Homology evidence = 237831926 0.0 191.1 81.24 3762 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_026320 + 6 ATTTACCAGATGGAGCCTCG

1898763,1900103,1341

1900833,1901222,390

1901772,1902170,399

1902467,1902580,114

1902732,1903905,1174

1904392,1904471,80

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_026330 + 8 AGAAAGGAAATGTCGTCCTC

1909532,1910728,1197

1911311,1911373,63

1911872,1911932,61

1912181,1912326,146

1912855,1912922,68

1913477,1913576,100

1913993,1914096,104

1914943,1916839,1897

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_026360 + 3 CCCTCTGACATGCCGATGGA

1937361,1939462,2102

1940270,1941314,1045

1941851,1941997,147

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_026400 + 11 GCGGTTTCAATGGCGCTGTT

1968174,1968223,50,END:Starts:1967026-1967056-

1968732,1968943,212,START: end 655 AG-GT

1969356,1969598,243,END: start -285 AG-GT

1970128,1970383,256,START: end 897 AG

1973445,1974100,656

1974464,1975790,1327

1976299,1976383,85

1976945,1977002,58

1977495,1977601,107

1978387,1978915,529

1980082,1980185,104

>> RNA-Seq evidence = 4/11 (36.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_026420 - 5 GCGTCTTGCATGGCTCATCC

1987153,1988486,1334,OVER:Starts:1985583-1985591-1985590-

1989465,1990658,1194,EXACT,AG-GT

1991238,1991542,305,EXACT,AG-GT

1991944,1992180,237,EXACT,AG-GT

1992689,1993941,1253,START:Ends:1994589-1994579-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_026420 - 5 GCGTCTTGCATGGCTCATCC VIIb A..ATG

1994152,1994579,428,5' UTR

1992689,1994151,1463,GT,START:Ends:1994589-1994579-,Old end=1993941

1991944,1992180,237,INTERNAL,EXACT,AG-GT

1991238,1991542,305,INTERNAL,EXACT,AG-GT

1989465,1990658,1194,INTERNAL,EXACT,AG-GT

1987153,1988486,1334,AG,OVER:Starts:1985583-1985591-1985590-,Old start=1987153

1985583,1987154,1570,3' UTR

#####

ID=NCLIV_026510 + 8 GACACGCTCATGGCCACCCA

2068998,2069077,80

2069770,2069927,158

2070230,2070309,80

2072083,2072115,33

2072836,2072892,57

2073407,2073439,33

2074075,2074465,391

2075017,2075345,329

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_026560 + 18 GTCAAGCACATGGTTGTAGA

2112526,2112638,113

2113004,2113141,138

2113683,2113766,84

2114968,2115154,187

2115628,2115721,94

2116319,2116439,121

2116812,2116933,122
 2117036,2117195,160
 2117657,2117924,268
 2118421,2118631,211
 2119018,2119180,163
 2119540,2119996,457
 2120277,2120542,266
 2120914,2121153,240
 2121337,2121478,142
 2121932,2122021,90
 2122393,2122683,291
 2123198,2123581,384

>> RNA-Seq evidence = NONE

>> Homology evidence = 237831846 0.0 87.6 78.80 1197 *Toxoplasma gondii* ME49
 leucine rich repeat protein

#####

ID=NCLIV_026590 + 5 GCCGCGTCCATGGCGGGTTT

2152001,2156833,4833

2157082,2157257,176

2157702,2157886,185

2158092,2158176,85,END: start 52 AG-GT

2158269,2158416,148

>> RNA-Seq evidence = 1/5 (20.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_026640 + 16 GCACGGGAGATGACGCCTCC

2188358,2188385,28,END:EXACT

2188684,2188753,70,EXACT,AG-GT

2189180,2189270,91,EXACT,AG
 2189794,2189890,97
 2190432,2190465,34
 2190800,2190853,54
 2191592,2191709,118,END: start -3 GT
 2192101,2192177,77,EXACT,AG-GT
 2192576,2193012,437,START: end -22 AG
 2193288,2193889,602,END: start -35 GT
 2194085,2194255,171,END: start 36 AG-GT
 2194470,2194895,426,EXACT,AG-GT
 2195343,2195456,114,EXACT,AG-GT
 2196024,2196178,155,EXACT,AG-GT
 2196580,2196675,96,EXACT,AG-GT
 2196945,2197080,136,START:Ends:2197603-2197584-

>> RNA-Seq evidence = 13/16 (81.3%)

>> Homology evidence = 237831832 0.0 107.6 80.34 760 Toxoplasma gondii ME49
 hypothetical protein

#####

ID=NCLIV_026670 - 2 GTGGCAGCGATGCCTCCCTT

2211222,2213602,2381,END:Starts:2210638-2210580-2210561-

2214026,2215016,991,START:Ends:2216042-2215956-2216061-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_026690 - 9 TGGGACGTGATGCAGAGCCT

2221910,2222137,228,END:Starts:2221140-2221056-2220749-

2222326,2222480,155,START: end 470 AG-GT

2222848,2222950,103,END: start -522 AG-GT

2223401,2223733,333,EXACT,GT
 2224290,2224416,127
 2225249,2225458,210
 2225777,2225862,86,START: end 799 AG
 2226490,2226661,172,END: start -713 AG
 2227040,2227161,122,START:Ends:2228173-2234210-

>> RNA-Seq evidence = 7/9 (77.8%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_026690 - 9 TGGGACGTGATGCAGAGCCT VIIb G..ATGG

2227441,2228173,733,5' UTR
 2227040,2227440,401,GT,START:Ends:2228173-2234210-,Old end=2227161
 2226490,2226661,172,INTERNAL,END: start -713 AG
 2225777,2225862,86,INTERNAL,START: end 799 AG
 2225249,2225458,210,INTERNAL,
 2224290,2224416,127,INTERNAL,
 2223401,2223733,333,INTERNAL,EXACT,GT
 2222848,2222950,103,INTERNAL,END: start -522 AG-GT
 2222326,2222480,155,INTERNAL,START: end 470 AG-GT
 2221910,2222137,228,AG,END:Starts:2221140-2221056-2220749-,Old start=2221910
 2220749,2221911,1161,3' UTR

#####

ID=NCLIV_026740 + 19 TGCGTGCCGATGGCTGCTGC

2283988,2284551,564
 2284788,2285012,225,END: start 87 GT
 2285937,2286028,92,END: start -444 AG
 2286470,2286874,405
 2287303,2287565,263,START: end -216 AG
 2287802,2288441,640

2288990,2290552,1563
 2291104,2291170,67
 2291611,2292090,480
 2292454,2293052,599
 2293420,2293492,73,EXACT,GT
 2294020,2294550,531,EXACT,AG-GT
 2294799,2295040,242,START: end -24 AG-GT
 2295574,2295658,85,END: start -2 GT
 2295965,2296093,129,EXACT,AG-GT
 2296571,2296629,59,EXACT,AG
 2297395,2297749,355
 2298033,2298136,104
 2298793,2298934,142

>> RNA-Seq evidence = 9/19 (47.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_026750 - 5 TCTACCCTCATGGCATCTGC

2304432,2304605,174
 2304903,2305130,228,EXACT,AG-GT
 2305429,2306436,1008,EXACT,AG-GT
 2307214,2307322,109,EXACT,AG-GT
 2307984,2308399,416,START:Ends:2309465-2309335-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_026780 - 1 CTCGCTTCCATGGCGCACAC

2328662,2331871,3210

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_026790 + 13 TCTGGCGCTATGTCATTCAG

2334918,2335006,89

2336314,2336701,388,END: start -1362 GT

2337162,2337347,186,EXACT,AG

2337824,2337889,66

2338395,2338601,207

2339472,2339527,56

2339835,2339917,83

2340451,2340610,160

2341376,2341520,145

2341843,2342036,194

2342517,2342621,105,END: start 56 GT

2342924,2343127,204,EXACT,AG-GT

2343731,2344367,637,START:Ends:2343899-2347036-

>> RNA-Seq evidence = 5/13 (38.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_026880 + 1 TCCGCATCAATGGTTGTCGT

2401211,2401798,588

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_026900 - 2 CGACGTCAAATGGAGCAGGA

2408713,2409224,512

2410137,2414661,4525

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_026910 + 10 CCTGGTGTGATGCCCGGGG

2423187,2424521,1335,END:Starts:2418289-2419176-2423851-

2425004,2425071,68,EXACT,AG-GT

2425216,2425373,158,EXACT,AG-GT

2425689,2425989,301,EXACT,AG-GT

2426388,2426586,199,EXACT,AG-GT

2427113,2427304,192,EXACT,AG-GT

2427731,2428003,273,EXACT,AG-GT

2428661,2428733,73,EXACT,AG-GT

2429431,2429617,187,EXACT,AG-GT

2429845,2430034,190,START:Ends:2430917-2431196-2433213-

>> RNA-Seq evidence = 10/10 (100.0%)

>> Homology evidence = 237831768 0.0 101.6 77.03 1035 Toxoplasma gondii ME49
SAC3/GANP domain-containing protein

#####

ID=NCLIV_027110 - 4 CTGATTCCCATGGTCAGGAC

2583192,2583524,333

2583969,2584786,818

2585370,2586766,1397

2587127,2587227,101

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_027150 - 9 GTCTTGGCAATGTTTTCTTC

2606540,2606863,324,END:Starts:2604928-2605862-2605635-

2607457,2608113,657,EXACT,AG-GT

2608484,2608725,242,EXACT,AG-GT

2609205,2609527,323,EXACT,AG-GT

2610057,2610262,206,EXACT,AG-GT

2610565,2611269,705,EXACT,GT

2611608,2611715,108,END: start 3 AG (ref:AC-GT)<< Possible error

2612063,2618169,6107,START: end -5 GT

2618735,2618870,136

>> RNA-Seq evidence = 8/9 (88.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_027190 + 11 TTTTCGTCCATGGCGCCAAG

2628532,2628757,226

2628957,2629063,107,EXACT,GT

2629430,2629672,243,EXACT,AG-GT

2629946,2630080,135,EXACT,AG-GT

2630419,2630496,78,START: end -49 AG

2630587,2630710,124

2630902,2631054,153

2631432,2632561,1130

2632818,2632894,77

2633038,2633201,164

2633390,2633418,29

>> RNA-Seq evidence = 4/11 (36.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_027220 + 5 GTGTCCTCTATGGAAGGGTC

2640921,2643989,3069,OVER:Starts:2644255-2638790-
 2644298,2645163,866,END: start -5508 GT
 2645684,2645921,238,START: end 332 AG-GT
 2646074,2646253,180,EXACT,AG-GT
 2646719,2646817,99,START:Ends:2647269-2647406-2647281-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_027250 - 9 TCATTGCCAATGGAGGACGC

2664654,2664963,310,END:Starts:2663982-2664041-2663856-
 2665320,2665374,55,EXACT,AG-GT
 2665536,2665713,178,EXACT,AG-GT
 2666338,2666583,246,EXACT,AG-GT
 2666923,2667046,124,EXACT,AG-GT
 2667426,2667535,110,START: end 4 GT
 2668293,2668373,81,END: start 7 AG
 2668917,2669096,180,END: start 27 AG-GC
 2669412,2669444,33,START:Ends:2669789-2669813-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_027460 + 3 CTCGCCGAAATGCAACTTAC

2847108,2847409,302
 2848342,2848621,280
 2849202,2849237,36

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_027640 + 13 ACCGCCCCGATGGCCGCCTC

2990353,2991117,765,END:Starts:2991072-2990364-

2991603,2992007,405,EXACT,AG-GT

2992375,2992481,107,EXACT,AG-GT

2992778,2993005,228,START: end -7 AG

2993296,2993369,74

2993961,2994105,145

2994463,2994520,58

2994924,2995062,139

2995733,2995905,173,END: start 18 GT (ref:AG-GT)<< Possible error

2996326,2996441,116,EXACT,AG-GT

2996961,2997147,187,EXACT,AG-GT

2997770,2997874,105,EXACT,AG-GT

2998558,2998707,150,START:Ends:2999237-2999271-

>> RNA-Seq evidence = 9/13 (69.2%)

>> Homology evidence = NONE

#####

ID=NCLIV_027670 - 1 TCGTATTCAATGGCGAGATA

3012293,3013189,897

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_027680 - 1 TCGTATTCAATGGCGAGATA

3016513,3017412,900

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_027690 - 1 TCGTATTCAATGGCGAGATA
3021655,3022557,903

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_027700 - 1 TGTATTCAAATGGCAAGCGA
3025882,3026775,894

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_027710 + 4 AGCTTTCCTATGGGTCTTGA
3031172,3031331,160
3031369,3031660,292
3031698,3031902,205
3031943,3032335,393

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_027720 - 5 TTCGGTCCCATGGTTTCCAC
3034331,3034451,121,END:Starts:3033311-3033336-3033350-
3034912,3035484,573,EXACT,AG-GT
3036192,3036313,122,EXACT,AG-GT
3036582,3036740,159,EXACT,AG-GT
3037541,3038029,489,START:Ends:3039252-3038958-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = 237831590 0.0 62.9 83.62 652 Toxoplasma gondii ME49 zinc finger (C3HC4 type RING finger) protein

#####

ID=NCLIV_027750 + 3 GTCCCTGGAATGTGGGAAAG

3055787,3057214,1428,END:EXACT

3057339,3057394,56,EXACT,AG-GT

3058365,3058728,364,WITHIN:Starts:3058494-3058505-

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_027780 + 3 GCTTTTCCAATGGCAGACAC

3071375,3071432,58,END:EXACT

3071766,3071912,147,END: start 98 ATG:AG-GT (ref:AG-GT)<< Possible error

3072533,3072789,257,START:Ends:3073346-3073366-3073381-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_027840 - 2 TTCTCACCGATGGTAAGGAC

3116683,3121850,5168

3122610,3122634,25

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_027860 - 7 AAGACCGCCATGCGCCACGA

3129286,3129411,126,END:Starts:3128252-3128342-3128284-

3130010,3130138,129,EXACT,AG-GT

3130599,3130670,72,EXACT,AG-GT

3131141,3131411,271,EXACT,AG-GT
 3131681,3132608,928,EXACT,AG-GT
 3133344,3133430,87,EXACT,AG-GT
 3133964,3135065,1102,START:Ends:3135838-3135860-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_027890 + 4 CCAACAGGAATGCGCGTCTG
 3148067,3148227,161,END:EXACT
 3149042,3149511,470,EXACT,AG-GT
 3150152,3150207,56,EXACT,AG-GT
 3150676,3150756,81,START:Ends:3151210-3151252-3151219-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_027950 - 4 CTGGAAGCAATGCTGCGAAT
 3183448,3183685,238,OVER:Starts:3182748-3182787-3182522-
 3184366,3184514,149,EXACT,AG-GT
 3185320,3185487,168,EXACT,AG-GT
 3185771,3186913,1143,START:Ends:3188254-3188727-

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = 237831544 0.0 125.7 82.56 898 Toxoplasma gondii ME49
 hypothetical protein

>> Alternative start codon

ID=NCLIV_027950 - 4 CTGGAAGCAATGCTGCGAAT VIIb A..ATG
 3187541,3188254,714,5' UTR
 3185771,3187540,1770,GT,START:Ends:3188254-3188727-,Old end=3186913

3185320,3185487,168,INTERNAL,EXACT,AG-GT

3184366,3184514,149,INTERNAL,EXACT,AG-GT

3183448,3183685,238,AG,OVER:Starts:3182748-3182787-3182522-,Old start=3183448

3182522,3183449,926,3' UTR

#####

ID=NCLIV_028080 - 5 CCGTGCGCCATGCCAGCTTC

3273743,3274773,1031,END:Starts:3273541-3273542-

3275176,3275407,232,START: end -200 GT

3275804,3276981,1178

3277427,3280469,3043

3281159,3281941,783

>> RNA-Seq evidence = 2/5 (40.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_028110 - 4 TATCCCTTGATGGTGCTTGC

3290887,3290899,13

3290953,3291119,167,EXACT,AG-GT

3291225,3291573,349,EXACT,AG-GT

3291771,3292003,233,START:Ends:3292684-3292603-3292647-

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_028110 - 4 TATCCCTTGATGGTGCTTGC VIIb A..ATG

3292130,3292603,474,5' UTR

3291771,3292129,359,GT,START:Ends:3292684-3292603-3292647-,Old end=3292003

3291225,3291573,349,INTERNAL,EXACT,AG-GT

3290953,3291119,167,INTERNAL,EXACT,AG-GT

3290887,3290899,13,AG,,Old start=3290887 (+ 1000)

3289887,3290888,1000,3' UTR

#####

ID=NCLIV_028140 - 7 CTCGGCGAGATGCCGGATCT

3302992,3303189,198,END:Starts:3302588-3302541-3302619-

3303452,3303510,59,EXACT,AG-GT

3303703,3303820,118,EXACT,AG-GT

3304341,3304529,189,EXACT,AG-GT

3304783,3304890,108,EXACT,AG-GT

3305271,3305425,155,EXACT,AG-GT

3305814,3306546,733,START:Ends:3307322-3307296-3307431-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_028170 - 1 TCCGCAGCGATGAGCGTCTC

3338255,3340000,1746

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_028260 - 5 CTGTCTCCGATGGAGAGGCT

3400202,3400244,43

3400755,3400817,63

3401322,3401389,68

3401742,3401929,188

3402519,3403035,517

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_028290 + 14 TCCGTGGAAATGCATTCTCT

3422529,3426356,3828

3426771,3426965,195

3427627,3427734,108

3428092,3428201,110

3428779,3428893,115

3429143,3429175,33

3429664,3429768,105

3430373,3430630,258

3431185,3431322,138

3431837,3432016,180

3432469,3432712,244

3433434,3433551,118

3433809,3433865,57

3434277,3434442,166

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_028440 + 12 AAGAGCCAAATGGCCATCGA

3565092,3565170,79,END:Starts:3564963-3564931-

3565890,3566168,279,OVER: start -171 and end 452 AG

3567759,3567839,81

3568765,3568887,123

3569643,3570041,399

3570990,3571070,81

3571929,3571988,60

3572977,3573078,102

3573233,3573334,102,START: end 821 GT

3573790,3573876,87,OVER: start -557 and end 279 GT

3574051,3574155,105,END: start -818 GT

3574773,3574804,32,START:Ends:3575346-3575443-

>> RNA-Seq evidence = 4/12 (33.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_028450 - 11 GTGAGTCAAATGGAAGCATC

3576527,3576588,62,OVER:Starts:3576178-3575497-

3577671,3578244,574,START: end -124 GT

3578699,3578777,79

3579401,3579664,264

3580568,3580731,164

3581318,3581389,72

3582096,3582177,82

3582667,3582738,72

3583047,3583142,96

3583266,3583770,505

3585185,3585245,61

>> RNA-Seq evidence = 1/11 (9.1%)

>> Homology evidence = NONE

#####

ID=NCLIV_028460 + 6 GAGGGTGCAATGCGTGTCCG

3587668,3589128,1461

3589424,3589587,164

3590184,3590196,13

3590648,3590761,114

3591119,3591702,584

3591989,3592070,82

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_028550 - 4 TTTTTCGTGATGTCGACACC

3666485,3666645,161,END:Starts:3665075-3665180-3665131-

3666934,3667033,100,EXACT,AG-GT

3667618,3667695,78,EXACT,AG-GT

3667967,3668134,168,START:Ends:3668462-3668613-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_028640 + 1 AGGTGTCCGATGGCCCACGA

3731811,3734147,2337

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_028650 + 4 TTTGTGGAGATGCCGGAACT

3739942,3743808,3867

3744386,3745742,1357,END: start -127 AG-GT (ref:AG-GT)<< Possible error

3746122,3747968,1847,EXACT,AG-GT

3748366,3748668,303,START:Ends:3751056-3750648-3750647-

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_028720 - 3 GCGCAGCCAATGGAGGCTCC

3810769,3812376,1608,END:Starts:3809314-3809351-3809285-

3812692,3815808,3117,EXACT,AG-GT

3816053,3818116,2064,START:Ends:3820370-3817965-3819907-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_028770 + 1 GAAGAAGAAATGCGAAAAAA
3877186,3878433,1248

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_028790 - 3 CTTGTTGACATGTACCAGGC
3883284,3883498,215
3883886,3884077,192
3884525,3887492,2968

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_028800 + 3 CGAGAAGCCATGAAGTGCAT
3890912,3890979,68
3891923,3891962,40
3892546,3900996,8451

>> RNA-Seq evidence = NONE

>> Homology evidence = 237831094 0.0 246.5 78.55 726 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_028850 + 2 CTTCTCGCCATGTTCACCTA
3961562,3962472,911

3963425,3964037,613

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_028980 - 2 TCTCCAGGCATGCAGCCTTC

4099230,4102162,2933,END:EXACT

4102486,4103515,1030,START:EXACT

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_028980 - 2 TCTCCAGGCATGCAGCCTTC VIIb [CT]..ATG[ACT]

4104395,4104515,121,5' UTR

4102486,4104394,1909,GT,START:EXACT,Old end=4103515 (-1000)

4099230,4102162,2933,AG,END:EXACT,Old start=4099230 (+ 1000)

4098230,4099231,1000,3' UTR

Leaky:ID=NCLIV_028980 - 2 TCTCCAGGCATGCAGCCTTC VIIb
GGAAATGC

4103810,4104515,706,5' UTR

4102486,4103809,1324,GT,START:EXACT,Old end=4103515 (-1000)

4099230,4102162,2933,AG,END:EXACT,Old start=4099230 (+ 1000)

4098230,4099231,1000,3' UTR

#####

ID=NCLIV_028990 + 17 GCTATCGCAATGTCGGTAAA

4110768,4110773,6

4112201,4112606,406,END: start -879 GT

4113413,4113693,281,EXACT,AG-GT

4114347,4114950,604,EXACT,AG-GT

4115378,4115674,297,EXACT,AG-GT

4116178,4116388,211,EXACT,AG-GT
 4116841,4117044,204,EXACT,AG-GT
 4117453,4117705,253,EXACT,AG-GT
 4118055,4118204,150,EXACT,AG-GT
 4118633,4118768,136,START: end 701 AG-GT (ref:AG-GT)<< Possible error
 4119309,4119469,161,END: start -676 AG-GT (ref:AG-GT)<< Possible error
 4120177,4120360,184,EXACT,AG-GT
 4120707,4120964,258,EXACT,AG-GT
 4121388,4121604,217,EXACT,AG-GT
 4122143,4122248,106,EXACT,AG-GT
 4122955,4123113,159,EXACT,AG-GT
 4123381,4123470,90,START:Ends:4124644-4126057-4124506-

>> RNA-Seq evidence = 16/17 (94.1%)

>> Homology evidence = NONE

#####

ID=NCLIV_029050 - 8 CACGTCTGGATGGGAGCATT

4158364,4158498,135

4158562,4158729,168

4159511,4159645,135

4160114,4160244,131

4160302,4160699,398

4160961,4161210,250

4161265,4161318,54

4161872,4161908,37

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_029060 - 6 AGCAGGCAAATGGCGTGTGG

4167255,4167355,101,END:Starts:4166566-4166726-4166634-
 4167519,4167627,109,EXACT,AG-GT
 4167733,4167908,176,EXACT,AG-GT
 4168302,4168437,136,EXACT,AG-GT
 4168576,4168788,213,EXACT,AG-GT
 4168896,4168931,36,START:Ends:4169412-4169419-4171073-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = 237831224 0.0 36.3 89.26 965 Toxoplasma gondii ME49
 hypothetical protein

#####

ID=NCLIV_029110 - 10 GCGGGCCTGATGGTGAAGGT

4211962,4212055,94,END:Starts:4211570-4211654-
 4212549,4212623,75,EXACT,AG-GT
 4213091,4213195,105,EXACT,AG-GT
 4213452,4213595,144,START: end -5 GT
 4213734,4213861,128
 4214368,4214602,235
 4215149,4219751,4603
 4220268,4220325,58
 4220965,4221048,84
 4222641,4222670,30

>> RNA-Seq evidence = 4/10 (40.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_029270 - 6 CTTCCCTCGATGGCGTCTTG

4344527,4344624,98,END:Starts:4344259-4344320-4344268-
 4345055,4345388,334,EXACT,AG-GT
 4345886,4345959,74,EXACT,ATG:AG-GT

4346268,4346411,144,EXACT,AG-GT
 4346601,4347269,669,EXACT,AG-GT
 4347728,4348019,292,START:EXACT

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_029270 - 6 CTTCCCTCGATGGCGTCTTG VIIb [CT]..ATG[ACT]

4348302,4349019,718,5' UTR

4347728,4348301,574,GT,START:EXACT,Old end=4348019 (-1000)

4346601,4347269,669,INTERNAL,EXACT,AG-GT

4346268,4346411,144,INTERNAL,EXACT,AG-GT

4345886,4345959,74,INTERNAL,EXACT,ATG:AG-GT

4345055,4345388,334,INTERNAL,EXACT,AG-GT

4344527,4344624,98,AG,END:Starts:4344259-4344320-4344268-,Old start=4344527

4344259,4344528,268,3' UTR

Leaky:ID=NCLIV_029270 - 6 CTTCCCTCGATGGCGTCTTG VIIb CTCGATGG

4348020,4349019,1000,5' UTR

4347728,4348019,292,GT,START:EXACT,Old end=4348019 (-1000)

4346601,4347269,669,INTERNAL,EXACT,AG-GT

4346268,4346411,144,INTERNAL,EXACT,AG-GT

4345886,4345959,74,INTERNAL,EXACT,ATG:AG-GT

4345055,4345388,334,INTERNAL,EXACT,AG-GT

4344527,4344624,98,AG,END:Starts:4344259-4344320-4344268-,Old start=4344527

4344259,4344528,268,3' UTR

#####

ID=NCLIV_029280 + 7 CAAGTTTCGATGGGGAGAAA

4352705,4352735,31

4353312,4353451,140

4354157,4354291,135

4354743,4354798,56

4355213,4355272,60

4355944,4356074,131

4356439,4356524,86

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_029290 - 7 CTCTTCCAGATGGCGCCGCA

4357979,4359277,1299,END:Starts:4357539-4357548-4357544-

4359537,4359658,122,EXACT,AG-GT

4359950,4360046,97,EXACT,AG-GT

4360161,4360295,135,EXACT,AG-GT

4360664,4360947,284,EXACT,AG-GT

4361212,4362000,789,EXACT,AG-GT

4362381,4363266,886,START:Ends:4364057-4363650-4363731-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = 237831162 0.0 88.0 81.63 1074 Toxoplasma gondii ME49
ankyrin repeat-containing protein

#####

ID=NCLIV_029330 + 9 GTTCGCCAGGAGATTCTCTG

4380130,4380214,85,EXACT,AG-GT

4380830,4381176,347,EXACT,AG-GT

4382104,4382655,552,START: end -1 AG

4383280,4383405,126,END: start -479 GT

4383946,4384068,123,EXACT,AG-GT

4384407,4384634,228,EXACT,AG-GT

4385078,4385632,555,EXACT,AG-GT

4386404,4386520,117,EXACT,ATG:AG-GT

4386721,4386846,126

>> RNA-Seq evidence = 8/9 (88.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_029460 + 2 CGTCTTCCCATGGCCTTCTC

4460718,4463150,2433,END:Starts:4460422-4461939-4462236-

4463592,4463657,66,START:Ends:4463851-4463914-4463925-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_029540 + 2 TCGAACGCCATGTTCGAGTGA

4499462,4500670,1209,END:EXACT

4501198,4502952,1755,START:Ends:4503975-4504815-4504790-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_029550 - 5 CTATCCCCAATGGCTTCAAC

4504712,4504816,105,END:Starts:4501206-4504538-4501029-

4505011,4505185,175,START: end 92 AG-GT

4505699,4505814,116,EXACT,AG-GT

4506207,4507696,1490,START: end 318 GT

4508109,4509813,1705

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_029570 - 2 TCCGCCGCATGACTGACGC

4518464,4519873,1410,END:Starts:4517011-4517067-4515507-

4520024,4520119,96,START:Ends:4521133-4520668-4521485-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = 237831378 0.0 43.5 81.08 1160 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_029580 + 2 GTCTTTGGGATGAAGGGCGC

4537440,4537823,384,END:Starts:4536193-4536813-4536963-

4538313,4538729,417,START:Ends:4539303-4539526-4539753-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_029620 + 3 TGCTGCGGAATGTCTCTCGT

4565434,4568241,2808,END:Starts:4566500-4565472-4567144-

4568678,4569291,614,START: end 333 AG-GT (ref:AG-GT)<< Possible error

4569902,4570073,172,START:EXACT

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_029620 + 3 TGCTGCGGAATGTCTCTCGT VIIb [CT]..ATG[ACT]

4567144,4567179,36,5' UTR

4567180,4568241,1062,GT,END:Starts:4566500-4565472-4567144-,Old start=4565434

4568678,4569291,614,INTERNAL,START: end 333 AG-GT (ref:AG-GT)<< Possible error

4569902,4570073,172,AG,START:EXACT,Old end=4570073 (-1000)

4570074,4571073,1000,3' UTR

Leaky:ID=NCLIV_029620 + 3 TGCTGCGGAATGTCTCTCGT VIIb
[CT]..ATG[ACT]

4567144,4567221,78,5' UTR

4567222,4568241,1020,GT,END:Starts:4566500-4565472-4567144-,Old start=4565434
 4568678,4569291,614,INTERNAL,START: end 333 AG-GT (ref:AG-GT)<< Possible error
 4569902,4570073,172,AG,START:EXACT,Old end=4570073 (-1000)
 4570074,4571073,1000,3' UTR

#####

ID=NCLIV_029640 - 6 GGGGAGGGAATGTTTTCCCG

4573311,4573429,119,END:Starts:4573132-4572910-4572944-

4573664,4573772,109,EXACT,AG-GT

4574097,4574182,86,EXACT,AG-GT

4574635,4574676,42,EXACT,AG

4575047,4575238,192,EXACT,AG-GT

4575990,4576035,46,START:EXACT

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_029650 - 1 CCCGAGGGTATGCGTTCACG

4576167,4576748,582,OVER:EXACT

>> RNA-Seq evidence = 1/1 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_029670 - 1 AAAAACGTCATGCTTGGCTC

4591963,4592856,894

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_029690 + 4 GTCGTGGAAATGTTTCGGCT

4608531,4608579,49,END:Starts:4607521-4608142-4607752-

4608984,4609051,68,EXACT,AG-GT

4609435,4609696,262,EXACT,AG-GT

4610459,4610613,155,START:EXACT

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_029780 - 20 AATAAACAAATGGCGACCCT

4684260,4684454,195,END:Starts:4684024-4684060-

4684759,4685036,278,EXACT,AG

4685500,4685575,76,EXACT,ATG:AG-GT

4685892,4685989,98,EXACT,AG-GT

4686481,4687046,566,START: end -335 GT

4687211,4687354,144

4687675,4687853,179

4688262,4688439,178

4689098,4689240,143,END: start -7 AG-GT

4690024,4690179,156,START: end -13 GT

4690946,4691676,731

4692021,4692284,264,END: start 9 AG

4692557,4692767,211,START: end 2 GT

4693279,4693419,141,END: start 11 AG

4693507,4693743,237,START: end 124 AG-GT

4694276,4694690,415,EXACT,AG-GT

4695146,4695283,138,EXACT,AG-GT

4696014,4696270,257,START: end -24 GT

4696879,4697103,225,END: start 14 AG

4697556,4697678,123,START:Ends:4698571-4698522-

>> RNA-Seq evidence = 16/20 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_029870 + 12 CCAGTCGCCATGTCTCCGTT

4755339,4757736,2398,END:Starts:4756836-

4758436,4758620,185,EXACT,AG-GT

4759053,4759137,85,EXACT,AG-GT

4759399,4759519,121,EXACT,AG-GT

4759980,4760081,102,EXACT,AG-GT

4760519,4760618,100,EXACT,AG-GT

4761159,4761346,188,EXACT,AG-GT

4761711,4762314,604,EXACT,AG-GT

4762476,4762705,230,EXACT,AG-GT

4763357,4763660,304,EXACT,AG-GT

4764178,4764336,159,EXACT,AG-GT

4764759,4765280,522,START:Ends:4765962-4765461-4768227-

>> RNA-Seq evidence = 12/12 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_029910 + 15 CCTCTTCGTATGGCGGACCT

4786278,4786331,54,END:Starts:4784937-4784957-

4786854,4786941,88,EXACT,TAG|TGA|TAA:AG-GT

4787210,4787275,66,EXACT,AG-GT

4787628,4787773,146,EXACT,AG-GT

4788290,4788365,76,END: start 19 AG-GT (ref:AG-GT)<< Possible error

4788888,4788947,60,EXACT,AG-GT

4789142,4789234,93,EXACT,AG-GT

4790033,4790347,315,EXACT,AG-GT

4790567,4791049,483,EXACT,AG-GT

4791307,4791569,263,EXACT,AG-GT

4792121,4792232,112,EXACT,AG-GT
 4792691,4792835,145,START: end -6 AG-GT
 4793470,4793530,61
 4793945,4794062,118,END: start -34 GT (ref:AG-GT)<< Possible error
 4794654,4794766,113,START:Ends:4795321-4795298-4795276-

>> RNA-Seq evidence = 14/15 (93.3%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_029910 + 15 CCTCTTCGTATGGCGGACCT VIIb A..ATG

4784957,4785545,589,5' UTR
 4785546,4786331,786,GT,END:Starts:4784937-4784957-,Old start=4786278
 4786854,4786941,88,INTERNAL,EXACT,TAG|TGA|TAA:AG-GT
 4787210,4787275,66,INTERNAL,EXACT,AG-GT
 4787628,4787773,146,INTERNAL,EXACT,AG-GT
 4788290,4788365,76,INTERNAL,END: start 19 AG-GT (ref:AG-GT)<< Possible error
 4788888,4788947,60,INTERNAL,EXACT,AG-GT
 4789142,4789234,93,INTERNAL,EXACT,AG-GT
 4790033,4790347,315,INTERNAL,EXACT,AG-GT
 4790567,4791049,483,INTERNAL,EXACT,AG-GT
 4791307,4791569,263,INTERNAL,EXACT,AG-GT
 4792121,4792232,112,INTERNAL,EXACT,AG-GT
 4792691,4792835,145,INTERNAL,START: end -6 AG-GT
 4793470,4793530,61,INTERNAL,
 4793945,4794062,118,INTERNAL,END: start -34 GT (ref:AG-GT)<< Possible error
 4794654,4794766,113,AG,START:Ends:4795321-4795298-4795276-,Old end=4794766
 4794767,4795321,555,3' UTR

#####

ID=NCLIV_029930 - 5 AAGCCAGTCATGAAGACGGA

4801094,4801192,99,END:Starts:4800751-4800345-4800686-

4801600,4801713,114,EXACT,AG-GT
 4802000,4802250,251,START: end -96 AG-GT
 4803208,4803372,165,END: start -403 AG-GT
 4804118,4804307,190,OVER:Ends:4805105-4804960-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_029940 - 9 GTGAAACAAATGGCGTCGGA

4807109,4807203,95,END:Starts:4806591-4806534-4806467-
 4807950,4808016,67,EXACT,AG-GT
 4808329,4808451,123,EXACT,AG-GT
 4808833,4808982,150,EXACT,AG-GT
 4809462,4809567,106,EXACT,AG-GT
 4809919,4810049,131,EXACT,AG-GT
 4811050,4811134,85,EXACT,AG-GT
 4811241,4811413,173,EXACT,AG-GT
 4811568,4811600,33,START:Ends:4812063-4812059-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

*** **CHROMOSOME VIII**

#####

ID=NCLIV_030060 - 8 TACTTCGAGATGAGCCTCGA

13180,14528,1349
 14746,15002,257
 15376,15561,186

15654,15829,176

16232,16453,222

16558,16950,393

17284,17574,291,END: start 144 AG

18244,18342,99,START:Ends:18493-19072-

>> RNA-Seq evidence = 2/8 (25.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_030080 - 8 CCGAAAGCCATGAAGCCACA

27566,27813,248

28320,28401,82

28785,28963,179

29504,29600,97

30055,30182,128

30492,30621,130

31166,31267,102

31463,31477,15

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_030180 - 1 TTATCTGTGATGCTGGACGA

90425,101194,10770

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_030300 + 5 GCCGGACACATGGCGCCAGA

183790,187438,3649,END:Starts:179658-186505-183858-

187765,188049,285,START: end 641 AG-GT (ref:AG-GT)<< Possible error
 188536,188690,155,END: start -771 AG-GT (ref:AG-GT)<< Possible error
 188965,189199,235,EXACT,AG-GT
 189975,191587,1613,START:Ends:192334-192300-192688-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_030350 - 3 TTTGCAGGAATGTGTGCGTG

224758,225246,489,END:Starts:223918-223919-223922-

225663,225757,95,EXACT,AG-GT

226464,227319,856,START:Ends:227246-227225-227295-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_030350 - 3 TTTGCAGGAATGTGTGCGTG VIII G..ATGG

227050,227225,176,5' UTR

226464,227049,586,GT,START:Ends:227246-227225-227295-,Old end=227319

225663,225757,95,INTERNAL,EXACT,AG-GT

224758,225246,489,AG,END:Starts:223918-223919-223922-,Old start=224758

223918,224759,840,3' UTR

#####

ID=NCLIV_030360 + 1 GCGGCGGCGATGACAGACGC

227574,228218,645

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_030450 - 13 GGATCACGAATGGTTCCTCG

285027,285435,409,END:Starts:282665-284643-282677-

285970,286166,197,EXACT,AG-GT

286828,286947,120,START: end -10 GT

287269,287340,72

287816,287893,78

288974,289037,64

289791,289935,145

290356,290457,102,END: start 6 AG

291271,291598,328,EXACT,AG-GT

292116,292351,236,EXACT,AG-GT

292871,293007,137,EXACT,AG-GT

293389,293618,230,START: end 21 GT

293828,294103,276

>> RNA-Seq evidence = 8/13 (61.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_030570 + 8 TTGGTCGAGATGCAGGAGAA

402765,402810,46

404310,404433,124

404849,405660,812

406557,406776,220

407389,407482,94

407835,407989,155

408269,408362,94

409865,410413,549

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_030580 - 3 GTTCTTGCAATGCAACGAGA

411585,412604,1020,END:Starts:409878-410983-410791-

412956,413164,209,EXACT,AG-GT

413559,416199,2641,START:Ends:417379-417356-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_030580 - 3 GTTCTTGCAATGCAACGAGA VIII [CT]..ATG[ACT]

416401,417356,956,5' UTR

413559,416400,2842,GT,START:Ends:417379-417356-,Old end=416199

412956,413164,209,INTERNAL,EXACT,AG-GT

411585,412604,1020,AG,END:Starts:409878-410983-410791-,Old start=411585

409878,411586,1707,3' UTR

Leaky:ID=NCLIV_030580 - 3 GTTCTTGCAATGCAACGAGA VIII TGCAATGC

416200,417356,1157,5' UTR

413559,416199,2641,GT,START:Ends:417379-417356-,Old end=416199

412956,413164,209,INTERNAL,EXACT,AG-GT

411585,412604,1020,AG,END:Starts:409878-410983-410791-,Old start=411585

409878,411586,1707,3' UTR

#####

ID=NCLIV_030620 - 3 ACGCGCGGCATGAGCAGCCA

434539,434714,176,END:Starts:434195-434216-434174-

435180,435490,311,EXACT,AG-GT

435814,436013,200,START:Ends:436743-436694-436707-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_030620 - 3 ACGCGCGGCATGAGCAGCCA VIII A..ATG

436254,436694,441,5' UTR

435814,436253,440,GT,START:Ends:436743-436694-436707-,Old end=436013

435180,435490,311,INTERNAL,EXACT,AG-GT

434539,434714,176,AG,END:Starts:434195-434216-434174-,Old start=434539

434174,434540,365,3' UTR

#####

ID=NCLIV_030670 - 6 GTCGACGAGATGCCGCCCTT

467939,479077,11139

479521,479655,135

479982,480317,336

480844,481053,210

481534,487760,6227

488467,491188,2722

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_030710 - 3 CGTTCTGGGATGTTTTCGAC

518703,519274,572,END:Starts:518505-518437-518510-

519610,519917,308,EXACT,AG-GT

520574,522123,1550,START:EXACT

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_030730 + 3 TTCGCCGGCATGCCGCTCGC

529066,529588,523

529990,530120,131

530532,530879,348

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_030760 + 7 CAAAACCTCATGGCCTCGAA

556401,556453,53,END:Starts:555276-555244-555827-

556923,557104,182,EXACT,AG-GT

557452,557556,105,EXACT,AG-GT

558110,558209,100,EXACT,AG-GT

558609,558757,149,EXACT,AG-GT

559252,559337,86,EXACT,AG-GT

560156,560248,93,START:EXACT

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_030760 + 7 CAAAACCTCATGGCCTCGAA VIII A..ATG

555827,556304,478,5' UTR

556305,556453,149,GT,END:Starts:555276-555244-555827-,Old start=556401

556923,557104,182,INTERNAL,EXACT,AG-GT

557452,557556,105,INTERNAL,EXACT,AG-GT

558110,558209,100,INTERNAL,EXACT,AG-GT

558609,558757,149,INTERNAL,EXACT,AG-GT

559252,559337,86,INTERNAL,EXACT,AG-GT

560156,560248,93,AG,START:EXACT,Old end=560248 (-1000)

560249,561248,1000,3' UTR

#####

ID=NCLIV_030880 + 5 GCGGGCGCCATGTCGGGAGG

656791,656868,78,END:Starts:656391-656369-656368-

657403,657678,276,EXACT,AG-GT

658213,658425,213,EXACT,AG-GT

658598,658696,99,EXACT,AG-GT

658973,659143,171,START:Ends:659737-659745-659690-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_030980 - 5 GTATGAGAGATGAGAATCTT

744383,744546,164

744924,745174,251

745974,746295,322

746481,746858,378

747312,748254,943

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_031050 - 4 CTCGTCGCGATGAAGGCGTT

788359,788408,50

788470,788493,24

788547,788742,196

788801,788902,102

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_031080 - 8 GCGAGCGAAATGTCTGATTT

800506,800601,96,OVER:Starts:799332-799162-799108-

801219,801277,59,EXACT,AG-GT

801816,802001,186,EXACT,AG-GT

802314,802591,278,EXACT,AG-GT

803008,803912,905,EXACT,AG-GT
804510,804994,485,EXACT,AG-GT
805261,805414,154,EXACT,AG-GT
806007,807305,1299,START:Ends:808452-808446-

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_031110 + 8 CCAGGTGCAATGTTTACGTT

828063,828261,199

828882,829019,138

829259,829735,477

830161,830625,465

831433,831794,362

833353,833630,278

833958,834042,85

835540,835602,63

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_031120 - 4 TCAGATCATATGGCCTTCAA

845900,845954,55,END:EXACT

846186,846251,66,EXACT,AG-GT

846395,846459,65,EXACT,ATG:AG-GT

846699,846770,72,START:EXACT

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_031130 + 4 TCCGTAGAAATGCTGGGACC
851284,851330,47
851873,853514,1642
853852,853992,141,EXACT,AG-GT
854290,854784,495,START:Ends:856379-855682-855768-

>> RNA-Seq evidence = 2/4 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_031160 - 18 TGC GTGCAAATGGAAGTACT
864499,864657,159
865364,865434,71
865721,865886,166
866369,866532,164
866977,867015,39
867197,867934,738
868458,868601,144
868910,868942,33
869719,870688,970
871090,871428,339
871614,871695,82
871996,872198,203
872793,873421,629
874024,874139,116
874572,874885,314
875483,876786,1304
877213,877546,334
879938,880948,1011

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_031180 - 1 TGTTTTCAGTTCAACTCGTT

893171,895744,2574,END:Starts:892771-892756-892938-

>> RNA-Seq evidence = 1/1 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_031180 - 1 TGTTTTCAGTTCAACTCGTT VIII G..ATGG

895196,895744,549,5' UTR

895745,897769,2025,single exon

897770,892756,-5013,3' UTR

#####

ID=NCLIV_031220 + 1 TTGTCTTTCATGGGTGACAA

929866,931641,1776

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_0313- 16 TCGGACGCGATGTCGCCTCC

1068757,1068864,108,END:EXACT

1069191,1069247,57,EXACT,AG-GT

1069611,1069689,79,EXACT,GT

1070007,1070848,842,END: start 6 AG (ref:AC-GT)<< Possible error

1071283,1071507,225,EXACT,AG-GT

1072061,1072213,153,EXACT,AG-GT

1072832,1073675,844,EXACT,AG-GT

1073997,1074091,95,EXACT,AG-GT

1074474,1074801,328,EXACT,AG-GT

1075155,1075271,117,EXACT,AG-GT

1076038,1076305,268,EXACT,AG-GT
 1076683,1076935,253,EXACT,AG-GT
 1077485,1077898,414,EXACT,AG-GT
 1078204,1078974,771,START: end -27 GT
 1079580,1080086,507,END: start 13 AG
 1080769,1081095,327,START:Ends:1081933-1081466-

>> RNA-Seq evidence = 16/16 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_0313- 16 TCGGACGCGATGTCGCCTCC VIII G..ATGG

1081144,1081466,323,5' UTR
 1080769,1081143,375,GT,START:Ends:1081933-1081466-,Old end=1081095
 1079580,1080086,507,INTERNAL,END: start 13 AG
 1078204,1078974,771,INTERNAL,START: end -27 GT
 1077485,1077898,414,INTERNAL,EXACT,AG-GT
 1076683,1076935,253,INTERNAL,EXACT,AG-GT
 1076038,1076305,268,INTERNAL,EXACT,AG-GT
 1075155,1075271,117,INTERNAL,EXACT,AG-GT
 1074474,1074801,328,INTERNAL,EXACT,AG-GT
 1073997,1074091,95,INTERNAL,EXACT,AG-GT
 1072832,1073675,844,INTERNAL,EXACT,AG-GT
 1072061,1072213,153,INTERNAL,EXACT,AG-GT
 1071283,1071507,225,INTERNAL,EXACT,AG-GT
 1070007,1070848,842,INTERNAL,END: start 6 AG (ref:AC-GT)<< Possible error
 1069611,1069689,79,INTERNAL,EXACT,GT
 1069191,1069247,57,INTERNAL,EXACT,AG-GT
 1068757,1068864,108,AG,END:EXACT,Old start=1068757 (+ 1000)
 1067757,1068758,1000,3' UTR

#####

ID=NCLIV_031320 + 7 GCGCCGGTGATGACAGCGTC
 1029993,1030758,766,END:EXACT
 1031148,1031351,204,EXACT,AG-GT
 1031785,1034750,2966,EXACT,AG-GT
 1035160,1035187,28,EXACT,ATG:AG-GT
 1035441,1035748,308,EXACT,AG-GT
 1036289,1036545,257,EXACT,AG-GT
 1036845,1037067,223,START:Ends:1037484-1037529-1037490-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_031320 + 7 GCGCCGGTGATGACAGCGTC VIII A..ATG
 1028993,1029980,988,5' UTR
 1029981,1030758,778,GT,END:EXACT,Old start=1029993 (+ 1000)
 1031148,1031351,204,INTERNAL,EXACT,AG-GT
 1031785,1034750,2966,INTERNAL,EXACT,AG-GT
 1035160,1035187,28,INTERNAL,EXACT,ATG:AG-GT
 1035441,1035748,308,INTERNAL,EXACT,AG-GT
 1036289,1036545,257,INTERNAL,EXACT,AG-GT
 1036845,1037067,223,AG,START:Ends:1037484-1037529-1037490-,Old end=1037067
 1037068,1037529,462,3' UTR

#####

ID=NCLIV_031360 + 1 CACGGTGCGATGCTTGTGAA
 1085639,1088344,2706

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_031370 - 18 GTCGTCGCCATGTCTTCCCT

1088963,1089088,126,END:Starts:1085113-1086379-
1089550,1089632,83,EXACT,AG-GT
1090354,1090418,65,EXACT,AG-GT
1091099,1091151,53,EXACT,AG-GT
1091825,1091936,112,EXACT,AG-GT
1092377,1092592,216,EXACT,AG-GT
1093067,1093142,76,EXACT,AG-GT
1093613,1093687,75,EXACT,AG
1094667,1094946,280,EXACT,AG-GT
1095422,1095741,320,EXACT,AG-GT
1095976,1096069,94,EXACT,AG-GT
1096653,1096764,112,START: end 1 GT
1097249,1097386,138,END: start 2 AG
1097781,1097848,68,EXACT,AG-GT
1098230,1098325,96,EXACT,AG-GT
1098561,1098703,143,EXACT,AG-GT
1099036,1099187,152,START: end 80 GT
1099550,1099929,380

>> RNA-Seq evidence = 17/18 (94.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_031450 - 2 AGTATCGAGATGATTTCCAG

1142668,1143507,840

1143629,1144423,795

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_031460 + 5 TAGTTCTCAATGGCGACTGC

1147123,1147522,400

1148154,1148501,348,END: start 69 AG-GT

1148745,1149116,372,EXACT,Info:AG-GC-AG-GT-

1149603,1149698,96

1150477,1150793,317,OVER:Starts:1150434-1150292-

>> RNA-Seq evidence = 2/5 (40.0%)

>> Homology evidence = 237837426 0.0 66.8 82.91 948 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_031470 - 2 CAACTCTCAATGGTAGCCAT

1153540,1153901,362,END:Starts:1153170-1153146-

1154335,1154371,37,OVER:Ends:1154397-1155358-

>> RNA-Seq evidence = 1/2 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_031480 + 3 AAAAAGGAGATGAGAACTCT

1157511,1157627,117,END:Starts:1156542-1156944-

1157982,1158069,88,EXACT,AG-GT

1158660,1158913,254,START:EXACT

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_031540 - 22 CTCTTCCCGATGGAACGGGA

1190633,1190851,219,END:Starts:1190551-1189963-1190037-

1191190,1191398,209,EXACT,GT

1191686,1191809,124

1192321,1193070,750

1193535,1193711,177
1194195,1194316,122
1194569,1194716,148,END: start 32 AG
1195316,1195663,348,START: end -258 AG-GT
1196018,1196223,206
1196760,1196958,199
1197445,1197585,141
1197712,1197840,129
1198244,1198453,210
1198838,1198977,140
1199288,1199537,250
1199943,1200005,63
1200528,1200635,108
1201018,1201161,144
1201817,1201927,111
1202255,1202482,228
1202971,1203171,201
1203599,1204096,498

>> RNA-Seq evidence = 4/22 (18.2%)

>> Homology evidence = NONE

#####

ID=NCLIV_031550 - 1 GGACAGCTGATGGGCCCTTG

1207198,1208475,1278

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_031610 - 2 TTTCTAGCAATGTCAGGTGC

1258995,1259603,609,END:Starts:1259003-1259000-1259006-

1259943,1262039,2097,START:Ends:1262226-1262791-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_031640 + 4 TCGTTCTTCATGGAGCGCAA

1289835,1289877,43,END:Starts:1288205-1289297-1289303-

1290399,1290495,97,START: end 269 AG-GT

1290687,1290764,78,END: start -288 AG-GT

1291263,1291437,175,START:Ends:1291764-1291763-1291823-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_031700 - 11 GTCTTCCACATGGGGAAGAC

1322343,1322819,477,END:Starts:1321757-1321814-1321821-

1323199,1323857,659,EXACT,AG-GT

1324278,1324385,108,EXACT,AG-GT

1324733,1324865,133,START: end 184 GT

1325252,1325254,3

1325805,1326035,231,START: end -3 AG (ref:AC-GT)<< Possible error

1326433,1327538,1106,EXACT,AG-GT

1327958,1328262,305,EXACT,AG-GT

1328404,1328488,85,EXACT,AG-GT

1328837,1329389,553,EXACT,AG-GT

1329750,1330571,822,START:Ends:1331812-1331795-

>> RNA-Seq evidence = 10/11 (90.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_031710 + 3 TTGAAAGGAATGAGCCTGGC

1342345,1342461,117,END:Starts:1340996-1340538-

1343651,1344246,596,EXACT,AG-GT

1344682,1344751,70,START:Ends:1345178-1345258-1345090-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_031710 + 3 TTGAAAGGAATGAGCCTGGC VIII [CT]..ATG[ACT]

1340996,1341006,11,5' UTR

1341007,1342461,1455,GT,END:Starts:1340996-1340538-,Old start=1342345

1343651,1344246,596,INTERNAL,EXACT,AG-GT

1344682,1344751,70,AG,START:Ends:1345178-1345258-1345090-,Old end=1344751

1344752,1345258,507,3' UTR

Leaky:ID=NCLIV_031710 + 3 TTGAAAGGAATGAGCCTGGC VIII
[CT]..ATG[ACT]

1340996,1341063,68,5' UTR

1341064,1342461,1398,GT,END:Starts:1340996-1340538-,Old start=1342345

1343651,1344246,596,INTERNAL,EXACT,AG-GT

1344682,1344751,70,AG,START:Ends:1345178-1345258-1345090-,Old end=1344751

1344752,1345258,507,3' UTR

#####

ID=NCLIV_031830 + 6 GAGCCTTCCATGGACCCGCC

1441913,1442834,922

1443316,1443443,128

1443719,1445771,2053

1446222,1447665,1444

1448018,1449643,1626

1450326,1451847,1522

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_031840 + 8 GGAGGCGCGATGACGCTGCC

1454129,1460750,6622

1461100,1461799,700

1462350,1462900,551

1463478,1463677,200

1464343,1464687,345

1465232,1465610,379

1465823,1467072,1250

1467427,1468695,1269

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_031870 + 1 TTCGTGGCAATGCTCCGGCT

1487457,1488272,816

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_032190 + 4 CCCGCCCTCATGGAGCTTTT

1823319,1823382,64

1823450,1823586,137

1823647,1823697,51

1823753,1823977,225

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_032230 + 2 GGATTCGCCATGAGCATCGA

1837893,1838954,1062,END:Starts:1837087-1837022-

1839566,1841986,2421,START:Ends:1842637-1844599-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_032280 + 8 CACTAGGCCATGCCGCGGA

1867495,1867549,55

1868895,1868961,67

1869023,1869114,92

1869171,1869221,51

1869281,1869360,80

1869417,1869453,37

1869512,1869588,77

1869644,1869727,84

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_032310 - 7 GCGACAGAGATGTTGTCGAG

1879066,1879132,67,END:Starts:1878843-1878834-

1879486,1879772,287,EXACT,AG

1880365,1880821,457,START: end -59 GT

1881626,1881693,68

1882129,1882591,463

1883080,1883237,158,END: start 34 AG

1883503,1884723,1221,START:Ends:1883865-1884692-

>> RNA-Seq evidence = 5/7 (71.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_032350 - 2 TTGAGCGCCATGCGGTCTGA

1924930,1928442,3513,END:Starts:1917630-

1928862,1929365,504,START:EXACT

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_032470 - 6 CTTTCTCATATGGACCCAC

1985728,1985952,225,END:EXACT

1986043,1986273,231,EXACT,AG-GT

1986374,1986577,204,EXACT,AG-GT

1986685,1986801,117,EXACT,AG-GT

1986916,1987461,546,EXACT,AG-GT

1987578,1988900,1323,START:Ends:1989922-1987977-1989737-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_032500 + 1 TTCGGAGAAATGAGGCCGCA

2006200,2011407,5208

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_032540 - 5 AGAACAGCCATGCAGACGCG

2034450,2035059,610

2035369,2035521,153

2035816,2036149,334

2036534,2037499,966

2037872,2038271,400

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_032610 - 1 CTAGGTGAGATGAACCGGTC

2069540,2071381,1842

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_032640 - 8 ACCTCTGATATGCATCCTTC

2085701,2086835,1135,END:Starts:2078138-

2087237,2087340,104,EXACT,AG-GT

2087848,2088063,216,EXACT,AG-GT

2088593,2088739,147,END: start 8 AG-GT (ref:AC-GT)<< Possible error

2089302,2089635,334,EXACT,AG-GT

2090321,2091895,1575,START: end -20 GT

2092285,2092967,683,END: start -11 AG

2093284,2094090,807,START:Ends:2095089-2095085-

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_032650 + 8 GTTGCACCGATGGCCGTTCT

2096261,2096387,127,END:Starts:2095287-2095292-

2096484,2096560,77,END: start 39 AG-GT

2096683,2096744,62,EXACT,AG-GT

2096881,2097056,176,EXACT,TAG|TGAI|TAA:AG-GT

2097214,2097324,111,EXACT,AG-GT

2097424,2097494,71,EXACT,AG-GT

2097621,2097666,46,EXACT,AG-GT

2097847,2097986,140,START:Ends:2098498-2100080-

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_032650 + 8 GTTGCACCGATGGCCGTTCT VIII A..ATG

2095292,2095843,552,5' UTR

2095844,2096387,544,GT,END:Starts:2095287-2095292-,Old start=2096261

2096484,2096560,77,INTERNAL,END: start 39 AG-GT

2096683,2096744,62,INTERNAL,EXACT,AG-GT

2096881,2097056,176,INTERNAL,EXACT,TAG|TGAI|TAA:AG-GT

2097214,2097324,111,INTERNAL,EXACT,AG-GT

2097424,2097494,71,INTERNAL,EXACT,AG-GT

2097621,2097666,46,INTERNAL,EXACT,AG-GT

2097847,2097986,140,AG,START:Ends:2098498-2100080-,Old end=2097986

2097987,2100080,2094,3' UTR

#####

ID=NCLIV_032730 - 8 GATGGCGAGATGATCGACCA

2124866,2125336,471,END:Starts:2122412-2122421-

2125828,2125959,132,EXACT,AG-GT

2126173,2126271,99,EXACT,AG-GT

2126853,2126973,121,START: end 426 AG-GT (ref:AC-GT)<< Possible error

2127314,2127399,86,END: start -461 AG-GT (ref:AC-GT)<< Possible error

2127648,2127734,87,EXACT,AG-GT

2128270,2128355,86,EXACT,AG-GT

2128665,2128758,94,START:Ends:2129968-2129898-2130836-

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_032730 - 8 GATGGCGAGATGATCGACCA VIII [CT]..ATG[ACT]

2129725,2129898,174,5' UTR

2128665,2129724,1060,GT,START:Ends:2129968-2129898-2130836-,Old end=2128758

2128270,2128355,86,INTERNAL,EXACT,AG-GT

2127648,2127734,87,INTERNAL,EXACT,AG-GT

2127314,2127399,86,INTERNAL,END: start -461 AG-GT (ref:AC-GT)<< Possible error

2126853,2126973,121,INTERNAL,START: end 426 AG-GT (ref:AC-GT)<< Possible error

2126173,2126271,99,INTERNAL,EXACT,AG-GT

2125828,2125959,132,INTERNAL,EXACT,AG-GT

2124866,2125336,471,AG,END:Starts:2122412-2122421-,Old start=2124866

2122412,2124867,2454,3' UTR

Leaky:ID=NCLIV_032730 - 8 GATGGCGAGATGATCGACCA VIII G..ATGG

2129683,2129898,216,5' UTR

2128665,2129682,1018,GT,START:Ends:2129968-2129898-2130836-,Old end=2128758

2128270,2128355,86,INTERNAL,EXACT,AG-GT

2127648,2127734,87,INTERNAL,EXACT,AG-GT

2127314,2127399,86,INTERNAL,END: start -461 AG-GT (ref:AC-GT)<< Possible error

2126853,2126973,121,INTERNAL,START: end 426 AG-GT (ref:AC-GT)<< Possible error

2126173,2126271,99,INTERNAL,EXACT,AG-GT

2125828,2125959,132,INTERNAL,EXACT,AG-GT

2124866,2125336,471,AG,END:Starts:2122412-2122421-,Old start=2124866

2122412,2124867,2454,3' UTR

#####

ID=NCLIV_032780 - 5 CCGCGGGCGATGCAAATTTG

2154673,2154776,104,END:EXACT

2154886,2155255,370,EXACT,AG-GT

2155394,2155478,85,EXACT,AG-GT

2155709,2155766,58,START: end 32 GT

2155843,2155912,70

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_032850 - 1 AAAAACCAAATGGGAGGCGC

2208747,2209688,942,OVER:Starts:2205054-2205056-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_032970 + 5 ATTGGCGCAATGAAGGAGGA

2318247,2319664,1418,END:Starts:2315830-2315929-2316543-

2320253,2321270,1018,EXACT,AG-GT

2321477,2324143,2667,EXACT,AG-GT

2324644,2324836,193,EXACT,AG-GT

2325374,2325879,506,START:Ends:2326312-2327684-2327585-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_033080 - 1 GTACATCCTATGGTGTTTTC

2410984,2411625,642

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_033180 + 7 GCATCCCTGATGGAATGCCG

2472448,2474780,2333

2475023,2475103,81,END: start -4 GT

2475489,2475610,122,EXACT,AG-GT

2475733,2475851,119,EXACT,AG-GT

2476078,2476320,243,EXACT,AG-GT

2476474,2476640,167,EXACT,AG

2477031,2477277,247

>> RNA-Seq evidence = 5/7 (71.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_033240 + 2 CGTTTTGGGATGAATATTC

2520042,2520345,304,END:Starts:2517380-2518140-2519939-

2520732,2521186,455,START:Ends:2521818-2524919-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_033260 + 6 CAACTCTCAATGGACGCCTC

2527426,2529470,2045

2529988,2530052,65

2530979,2531122,144

2531621,2531662,42

2532068,2532126,59,EXACT,AG-GT

2532640,2532771,132,START:Ends:2533084-2534087-

>> RNA-Seq evidence = 2/6 (33.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_033300 - 6 GGACGGGAGATGCTCTTCGC

2562740,2563509,770,OVER:Starts:2561760-2561843-2563784-

2563909,2564566,658,END: start -2066 AG (ref:AC-GT)<< Possible error

2565161,2565235,75,START: end 191 GT

2565858,2566067,210

2566715,2567016,302,OVER: start -7 and end 2463 AG-GT

2567222,2567243,22,OVER:Ends:2567981-2569479-

>> RNA-Seq evidence = 2/6 (33.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_033390 - 4 CGAAAAGTGATGTTGCGCAG

2640842,2640901,60

2640967,2641097,131

2641160,2641196,37

2641255,2641374,120

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_033400 + 6 CTCTACGCAATGAAAGTCGT

2645679,2645847,169,END:EXACT

2646175,2646375,201,EXACT,AG-GT

2646802,2646872,71,EXACT,AG-GT

2647166,2647283,118,EXACT,AG-GT

2647641,2647798,158,EXACT,AG-GT

2648171,2648260,90,WITHIN:Starts:2648219-2648171-2648181-

>> RNA-Seq evidence = 5/6 (83.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_033410 + 12 CAGAGCGAGATGTCATCCTC

2652135,2653042,908,END:Starts:2651356-2651375-2653017-

2653379,2654712,1334,EXACT,AG-GT

2655058,2655304,247,START: end -12 AG

2655914,2656024,111,END: start 18 GT (ref:AG-GT)<< Possible error

2656276,2656379,104,EXACT,AG-GT

2656664,2657005,342,EXACT,AG-GT

2657386,2658059,674,EXACT,AG-GT

2658307,2658400,94,EXACT,AG-GT

2658735,2659969,1235,EXACT,AG-GT

2660389,2660847,459,EXACT,AG-GT

2661336,2661641,306,EXACT,AG-GT

2661975,2662652,678,START:Ends:2663976-2663975-2663972-

>> RNA-Seq evidence = 12/12 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_033420 + 9 CCGCACCCGATGGAGTCAAG

2666243,2666737,495

2667242,2667331,90

2667941,2668144,204

2668778,2668970,193

2669423,2669498,76

2669798,2670146,349

2670730,2670838,109

2671395,2671455,61

2671929,2672232,304

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_033430 - 8 GAAGGCCCGATGGTGTCTCC

2673415,2673660,246,END:Starts:2672761-2672751-2672568-

2674355,2674952,598,EXACT,AG-GT

2675672,2675775,104,START: end -1 GT (ref:AC-GT)<< Possible error

2676182,2676281,100,END: start -73 AG (ref:AC-GT)<< Possible error

2677472,2677626,155,END: start 50 AG-GC (ref:AC-GT)<< Possible error

2677945,2678092,148,START: end 769 GT

2678939,2678996,58

2679542,2679650,109

>> RNA-Seq evidence = 6/8 (75.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_033440 + 14 TCTGCAGGGATGCTTCGCCC

2682062,2682188,127

2682397,2682475,79

2682957,2683065,109

2683457,2683738,282

2684083,2684152,70

2684422,2684513,92

2685124,2685369,246

2685827,2685933,107

2686421,2686520,100

2687243,2687607,365,EXACT,GT

2688268,2688325,58,EXACT,AG-GT

2689026,2689202,177,EXACT,AG-GT

2689780,2689859,80,EXACT,AG-GT

2690332,2690533,202,START:Ends:2690908-2691641-

>> RNA-Seq evidence = 5/14 (35.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_033460 + 12 GTCGGGCGGATGGTGAGCCG

2695795,2695797,3

2696707,2696898,192

2697360,2697547,188

2697970,2698066,97

2698717,2698823,107

2699273,2699639,367

2700235,2700369,135

2700738,2701288,551

2701573,2702174,602,END: start 17 GT

2702471,2702569,99,EXACT,AG-GT

2703018,2703203,186,EXACT,AG-GT

2703612,2703919,308,START:Ends:2704638-2704651-

>> RNA-Seq evidence = 4/12 (33.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_033530 - 1 GTTGGTGTGATGCCGCCGTC

2754937,2756847,1911

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_033570 - 3 GGACACCAAATGGCGTGTCT

2786289,2787269,981

2787782,2787807,26

2788032,2788200,169

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_033640 - 1 TACGAAGACATGAGAAGTCG
2850335,2850784,450

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_033660 - 1 GCCAAGTTCATGGCGTTCCT
2855616,2856737,1122

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_033680 + 6 GGAACCGCGATGCCAGCCGC
2868112,2868372,261,END:Starts:2867103-2867058-2867490-
2868920,2869111,192,EXACT,AG-GT
2869543,2869687,145,EXACT,AG-GT
2870108,2870249,142,EXACT,AG-GT
2870764,2870958,195,START: end 57 AG
2871588,2871663,76

>> RNA-Seq evidence = 5/6 (83.3%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_033680 + 6 GGAACCGCGATGCCAGCCGC VIII A..ATG
2867490,2868036,547,5' UTR
2868037,2868372,336,GT,END:Starts:2867103-2867058-2867490-,Old start=2868112

2868920,2869111,192,INTERNAL,EXACT,AG-GT
 2869543,2869687,145,INTERNAL,EXACT,AG-GT
 2870108,2870249,142,INTERNAL,EXACT,AG-GT
 2870764,2870958,195,INTERNAL,START: end 57 AG
 2871588,2871663,76,AG,,Old end=2871663 (-1000)
 2871664,2872663,1000,3' UTR

#####

ID=NCLIV_033690 - 4 CTCGGATCCATGGCGTCGCA

2872887,2873025,139,END:Starts:2871701-2871677-2872036-
 2873219,2873624,406,EXACT,AG-GT
 2874019,2875629,1611,EXACT,AG-GT
 2876303,2876417,115,START:Ends:2884127-2877104-2891207-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_0337- 1 ACAAACCGAATGGAGCAGTT

2963698,2965275,1578

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_033800 + 7 CTACAGCTGATGGGTACCCT

2985671,2985708,38
 2985794,2986276,483
 2986496,2986656,161
 2987004,2987343,340
 2987611,2987842,232
 2988112,2988189,78
 2988624,2989124,501

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_033820 + 6 CGCAAATTTATGGAGATATG

2996394,2997396,1003,END:Starts:2996451-2996448-2996550-

2997759,2997974,216,EXACT,AG-GT

2998520,2998611,92,EXACT,AG-GT

2998842,2998931,90,EXACT,AG-GT

2999107,2999238,132,START: end 3 AG

2999505,2999717,213,START:Ends:2999771-2999786-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = 237833390 0.0 75.3 81.67 863 Toxoplasma gondii ME49
aldo/keto reductase family oxidoreductase

>> Alternative start codon

ID=NCLIV_033820 + 6 CGCAAATTTATGGAGATATG VIII [CT]..ATG[ACT]

2996550,2996573,24,5' UTR

2996574,2997396,823,GT,END:Starts:2996451-2996448-2996550-,Old start=2996394

2997759,2997974,216,INTERNAL,EXACT,AG-GT

2998520,2998611,92,INTERNAL,EXACT,AG-GT

2998842,2998931,90,INTERNAL,EXACT,AG-GT

2999107,2999238,132,INTERNAL,START: end 3 AG

2999505,2999717,213,AG,START:Ends:2999771-2999786-,Old end=2999717

2999718,2999786,69,3' UTR

Leaky:ID=NCLIV_033820 + 6 CGCAAATTTATGGAGATATG VIII
[CT]..ATG[ACT]

2996550,2997098,549,5' UTR

2997099,2997396,298,GT,END:Starts:2996451-2996448-2996550-,Old start=2996394

2997759,2997974,216,INTERNAL,EXACT,AG-GT

2998520,2998611,92,INTERNAL,EXACT,AG-GT

2998842,2998931,90,INTERNAL,EXACT,AG-GT

2999107,2999238,132,INTERNAL,START: end 3 AG

2999505,2999717,213,AG,START:Ends:2999771-2999786-,Old end=2999717

2999718,2999786,69,3' UTR

#####

ID=NCLIV_033860 + 1 GTCTGCTCAATGGATTGCAG

3038106,3039113,1008,OVER:Ends:3037391-3042177-3042217-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_033870 - 1 AGATCTGTGATGTTCCGGAA

3040795,3043188,2394

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_033900 + 2 GGTTTACCGATGGCGGACAG

3052526,3053153,628,END:EXACT

3053382,3054541,1160,START:Ends:3054963-3054970-3055105-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_033910 + 6 CGACAGGAAATGTCTGGTGG

3062052,3064376,2325

3065095,3073036,7942

3073500,3073983,484

3074461,3074869,409

3075542,3075652,111

3076052,3076144,93

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_033920 + 2 TTCTCAGAAATGCTAGAGAG

3079315,3080870,1556,END:Starts:3077492-3077862-3079313-

3081289,3081403,115,START:Ends:3082144-3082275-3082223-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_034020 + 1 CTTGAGGTCATGAAGGGCGT

3142930,3144408,1479

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_034250 - 2 ACGCGAGAAATGCAGTCCAA

3346090,3346359,270

3346699,3346749,51

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_034260 + 6 GTGTAACCCATGGAGGGTCC

3347075,3351953,4879,END:Starts:3346382-3348460-3350851-

3352419,3355765,3347,END: start 2718 GT

3356337,3356582,246,EXACT,AG-GT

3356761,3356940,180,EXACT,AG-GT

3357796,3357939,144,EXACT,AG-GT

3358544,3358603,60,START:Ends:3359187-3358935-3359025-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = 237833284 0.0 99.3 82.19 2013 Toxoplasma gondii ME49
hypothetical protein

>> Alternative start codon

ID=NCLIV_034260 + 6 GTGTAACCCATGGAGGGTCC VIII [CT]..ATG[ACT]

3350851,3351100,250,5' UTR

3351101,3351953,853,GT,END:Starts:3346382-3348460-3350851-,Old start=3347075

3352419,3355765,3347,INTERNAL,END: start 2718 GT

3356337,3356582,246,INTERNAL,EXACT,AG-GT

3356761,3356940,180,INTERNAL,EXACT,AG-GT

3357796,3357939,144,INTERNAL,EXACT,AG-GT

3358544,3358603,60,AG,START:Ends:3359187-3358935-3359025-,Old end=3358603

3358604,3359187,584,3' UTR

Leaky:ID=NCLIV_034260 + 6 GTGTAACCCATGGAGGGTCC VIII GTTCATGG

3350851,3351118,268,5' UTR

3351119,3351953,835,GT,END:Starts:3346382-3348460-3350851-,Old start=3347075

3352419,3355765,3347,INTERNAL,END: start 2718 GT

3356337,3356582,246,INTERNAL,EXACT,AG-GT

3356761,3356940,180,INTERNAL,EXACT,AG-GT

3357796,3357939,144,INTERNAL,EXACT,AG-GT

3358544,3358603,60,AG,START:Ends:3359187-3358935-3359025-,Old end=3358603

3358604,3359187,584,3' UTR

#####

ID=NCLIV_034285 + 2 CCGGTTGATATGTCATCGCA

3380818,3381523,706

3382143,3382441,299

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_034320 + 3 CGGTCAGCAATGTCGAGCCA

3401502,3401795,294,END:EXACT

3402141,3402208,68,EXACT,AG-GT

3402665,3402785,121,START:Ends:3403459-3403446-3403418-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_034330 + 3 AGAGAAGCCATGTCAATCGC

3407314,3409084,1771,END:Starts:3408817-3406481-

3409598,3410378,781,EXACT,AG-GT

3410677,3410896,220,START:Ends:3412404-3412288-3412364-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_034370 + 9 CTCTGCCCGATGGCTGCCTC

3434515,3435388,874,END:Starts:3433604-3433636-3433755-

3435735,3436494,760,EXACT,AG-GT

3437097,3437207,111,EXACT,AG-GT

3437638,3437738,101,EXACT,AG-GT

3438120,3438352,233,EXACT,AG-GT

3438834,3438995,162,EXACT,AG-GT

3439447,3439602,156,EXACT,AG-GT

3439852,3439931,80,EXACT,AG-GT

3440404,3440518,115,START:Ends:3440802-3440811-3440864-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_034450 + 8 GACGCCGCAATGCAGACTTC

3490106,3490131,26,OVER:Starts:3489508-3489787-3490611-

3490891,3491260,370,END: start -1104 GT (ref:AG-GT)<< Possible error

3491675,3491755,81,EXACT,AG-GT

3491974,3492062,89,EXACT,AG-GT

3492613,3492767,155,EXACT,AG

3493661,3493771,111,EXACT,AG-GT

3494625,3494735,111,EXACT,AG-GT

3494974,3495098,125,START:Ends:3495013-3495064-

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_034460 - 11 CGCAAGCAGATGGCGCAGAT

3497341,3497379,39,END:Starts:3497026-3496907-3496885-

3497755,3497903,149,EXACT,AG-GT

3498280,3498403,124,EXACT,AG-GT

3498963,3499091,129,EXACT,AG-GT

3499309,3499587,279,EXACT,AG-GT

3499953,3500209,257,EXACT,AG-GT

3500638,3500854,217,EXACT,AG-GT

3501180,3501367,188,EXACT,AG-GT

3501918,3502112,195,EXACT,AG-GT

3502315,3502410,96,EXACT,AG-GT

3502758,3502863,106,START:EXACT

>> RNA-Seq evidence = 11/11 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_034500 - 2 AGGGCAGTCATGTGTGTGAC

3522901,3523289,389,END:Starts:3522116-3521994-3522150-

3523736,3524738,1003,START:Ends:3525807-3525746-3525821-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_034500 - 2 AGGGCAGTCATGTGTGTGAC VIII A..ATG

3525225,3525746,522,5' UTR

3523736,3525224,1489,GT,START:Ends:3525807-3525746-3525821-,Old end=3524738

3522901,3523289,389,AG,END:Starts:3522116-3521994-3522150-,Old start=3522901

3521994,3522902,907,3' UTR

#####

ID=NCLIV_034570 - 3 ACAGGCTCCATGGAGAGCAT

3572905,3573237,333

3573662,3573917,256,END: start 40 AG

3574363,3575057,695,START:Ends:3575715-3575170-

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_034580 + 4 CTCGTCGAGATGACTGGGCG

3576808,3577830,1023,END:Starts:3576031-3576011-

3578386,3578433,48,EXACT,AG-GT

3578993,3580754,1762,EXACT,AG-GT

3581714,3582981,1268,START:EXACT

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = 237833216 0.0 102.6 84.03 3400 Toxoplasma gondii ME49
DNA-directed RNA polymerase III subunit

#####

ID=NCLIV_034820 + 10 ATGTCTCCGATGGCAACCGC

3765648,3765998,351

3766240,3766359,120,END: start 12 GT

3766736,3766874,139,EXACT,AG-GT

3767397,3767488,92,EXACT,AG-GT

3767912,3768160,249,EXACT,AG-GT

3768338,3768508,171,EXACT,AG-GT

3768880,3768984,105,EXACT,AG-GT

3769512,3769691,180,EXACT,AG-GT

3770137,3770254,118,EXACT,AG-GT

3770722,3771068,347,START:Ends:3772549-3773145-3772910-

>> RNA-Seq evidence = 9/10 (90.0%)

>> Homology evidence = 237833170 0.0 95.0 83.13 1450 Toxoplasma gondii ME49
sugar transporter

#####

ID=NCLIV_034850 - 1 CAACGTGAGATGAGTCAGTC

3792364,3793689,1326

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_034860 + 2 TATGACGCCATGTACCAGCT

3798613,3798699,87

3798975,3799262,288

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_034920 + 4 CTTCTGTACATGGAGGAATC

3851272,3851397,126,END:EXACT

3851890,3851998,109,EXACT,AG-GT

3852335,3852567,233,START: end 115 AG-GT (ref:AG-GT)<< Possible error

3853286,3853354,69,START:Ends:3858445-3858435-3858452-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_034920 + 4 CTTCTGTACATGGAGGAATC VIII [CT]..ATG[ACT]

3850272,3851076,805,5' UTR

3851077,3851397,321,GT,END:EXACT,Old start=3851272 (+ 1000)

3851890,3851998,109,INTERNAL,EXACT,AG-GT

3852335,3852567,233,INTERNAL,START: end 115 AG-GT (ref:AG-GT)<< Possible error

3853286,3853354,69,AG,START:Ends:3858445-3858435-3858452-,Old end=3853354

3853355,3858452,5098,3' UTR

Leaky:ID=NCLIV_034920 + 4 CTTCTGTACATGGAGGAATC VIII GTACATGG

3850272,3851271,1000,5' UTR

3851272,3851397,126,GT,END:EXACT,Old start=3851272 (+ 1000)

3851890,3851998,109,INTERNAL,EXACT,AG-GT

3852335,3852567,233,INTERNAL,START: end 115 AG-GT (ref:AG-GT)<< Possible error

3853286,3853354,69,AG,START:Ends:3858445-3858435-3858452-,Old end=3853354

3853355,3858452,5098,3' UTR

#####

ID=NCLIV_034960 + 5 AATTCGACATGAGCCGAGA

3893664,3893804,141,OVER:Starts:3892747-3892009-3894169-

3894169,3894290,122,END: start -1422 AG-GT (ref:AG-GT)<< Possible error

3894717,3895261,545,EXACT,AG-GT

3895910,3895967,58,EXACT,AG-GT

3896503,3896593,91,START:Ends:3897130-3897134-3897151-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_035020 - 1 AATCACGAGATGCTTAACCG
3945486,3947228,1743

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_035060 - 7 ACCGACCGGATGGCTACCGC
3960268,3960774,507

3961002,3961085,84,END: start 1 AG-GT (ref:AC-GT)<< Possible error

3961449,3961925,477,EXACT,AG-GT

3962140,3962242,103,EXACT,AG-GT

3962978,3963048,71

3963263,3963723,461

3964050,3964572,523

>> RNA-Seq evidence = 3/7 (42.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_035100 - 9 TGTCTCGCGATGTTTTTGCC
3990490,3992208,1719

3992775,3994292,1518

3994791,4000720,5930

4001627,4001965,339

4002223,4002865,643

4003332,4003791,460

4004337,4005853,1517

4006403,4006950,548

4007487,4007757,271

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_035200 - 4 TCGACCGAAATGCTGTCTGA

4097098,4097295,198,END:Starts:4096121-4096164-4096139-

4097743,4097821,79,EXACT,AG-GT

4098027,4098142,116,EXACT,AG-GT

4098558,4100024,1467,START:Ends:4101274-4100864-4101328-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_035240 + 2 CTTGGATCCATGGATCGCGG

4123466,4124802,1337,END:Starts:4124099-4122893-

4125456,4125693,238,START:Ends:4125920-4126108-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_035240 + 2 CTTGGATCCATGGATCGCGG VIII [CT]..ATG[ACT]

4124099,4124687,589,5' UTR

4124688,4124802,115,GT,END:Starts:4124099-4122893-,Old start=4123466

4125456,4125472,17,AG,START:Ends:4125920-4126108-,Old end=4125693

4125473,4126108,636,3' UTR

#####

ID=NCLIV_035340 - 18 GGGCTTCTGATGGAGGGCAT

4194521,4194811,291,END:Starts:4193108-4193067-4193583-
4195346,4196227,882,EXACT,AG-GT
4196554,4196691,138,EXACT,AG-GT
4197372,4197540,169,START: end -8 GT (ref:AC-GT)<< Possible error
4198015,4198085,71
4198557,4198672,116,END: start 7 AG (ref:AC-GT)<< Possible error
4198946,4199211,266,EXACT,AG-GT
4199620,4199922,303,EXACT,AG-GT
4200583,4200869,287,EXACT,AG-GT
4201410,4201574,165,EXACT,AG-GT
4201928,4202163,236,EXACT,AG
4202809,4203990,1182,EXACT,AG-GT
4204168,4204825,658,EXACT,AG-GT
4205435,4205791,357,EXACT,AG-GT
4206341,4206562,222,EXACT,AG-GT
4207071,4207417,347,EXACT,AG-GT
4207889,4208129,241,EXACT,AG-GT
4208380,4211436,3057,START:Ends:4211523-4211389-

>> RNA-Seq evidence = 17/18 (94.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_035350 + 5 GAGAGGTCAATGGCGGACAG

4214228,4214276,49,END:Starts:4214086-4214128-
4215655,4215705,51,EXACT,AG-GT
4216585,4216709,125,EXACT,AG-GT
4216920,4217405,486,EXACT,AG-GT
4217767,4218093,327,START:Ends:4218497-4218707-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_035450 - 11 GGTTTGGAGATGTGGGGCGA

4275982,4276062,81

4276214,4276322,109

4276724,4277658,935

4277823,4277999,177

4278164,4278700,537

4278834,4279469,636

4279812,4280320,509

4280835,4281726,892

4282191,4282896,706

4283934,4284198,265

4284700,4286176,1477

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_035520 - 1 TTACAACCCATGGAGGCAGA

4344195,4354856,10662

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_035530 + 2 GCAAACGCCATGACACCAGG

4356647,4357954,1308,END:Starts:4355852-4355933-4357076-

4358582,4358644,63,START:Ends:4359351-4359356-4359363-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_035530 + 2 GCAAACGCCATGACACCAGG VIII A..ATG

4357076,4357579,504,5' UTR

4357580,4357954,375,GT,END:Starts:4355852-4355933-4357076-,Old start=4356647

4358582,4358644,63,AG,START:Ends:4359351-4359356-4359363-,Old end=4358644

4358645,4359363,719,3' UTR

#####

ID=NCLIV_035550 + 19 CGCAACTCAATGGTCTTTGT

4370436,4370720,285

4371205,4371243,39

4371545,4371595,51

4372183,4372233,51

4373137,4373165,29

4374244,4374334,91

4374360,4374372,13

4376130,4376213,84

4376788,4376934,147

4377341,4377471,131

4377729,4377816,88

4378344,4378484,141

4378801,4378943,143

4379760,4379832,73

4380117,4380181,65

4380478,4380540,63

4381850,4382115,266,OVER: start -13 and end 17 AG

4382679,4382714,36

4382825,4382996,172

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_035660 + 1 CGGGAAGCCATGCCAACTGC

4450285,4452660,2376

>> RNA-Seq evidence = NONE

>> Homology evidence = 237832974 0.0 100.4 73.86 883 Toxoplasma gondii ME49 Bin3 domain-containing protein

#####

ID=NCLIV_035720 + 13 GTTTCCTCCATGGCTTCCGC

4514097,4514957,861,END:Starts:4513568-4513567-

4515506,4515784,279,EXACT,AG-GT

4516211,4516527,317,EXACT,AG-GT

4517383,4517461,79,EXACT,AG-GT

4518426,4518664,239,EXACT,AG-GT

4519093,4519240,148,EXACT,AG-GT

4519884,4520062,179,EXACT,AG-GT

4520566,4520644,79,EXACT,AG-GT

4521417,4521533,117,EXACT,AG-GT

4522307,4522555,249,EXACT,AG-GT

4523187,4523315,129,EXACT,AG-GT

4523530,4523610,81,EXACT,AG-GT

4523747,4524037,291,START:Ends:4524527-4524423-

>> RNA-Seq evidence = 13/13 (100.0%)

>> Homology evidence = 237832956 0.0 91.6 73.50 737 Toxoplasma gondii ME49 hypothetical protein

#####

ID=NCLIV_035750 - 12 GTCGCCCCCATGGCGGGGTC

4539461,4539718,258,END:Starts:4538189-4538139-

4540050,4540153,104,EXACT,AG-GT

4540719,4540785,67,EXACT,AG-GT

4541133,4541319,187,START: end 245 GT

4541692,4541896,205

4542158,4542239,82

4542885,4542953,69

4543465,4543587,123

4543950,4544059,110

4544352,4544655,304

4544946,4545257,312

4545537,4545692,156

>> RNA-Seq evidence = 4/12 (33.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_035820 + 7 TTCTTCTCGATGGGGCGTTC

4622052,4624487,2436,END:Starts:4621708-4621742-4623402-

4624978,4625226,249,EXACT,AG-GT

4625803,4625913,111,EXACT,AG-GT

4626313,4626852,540,EXACT,AG-GT

4627474,4627571,98,EXACT,AG-GT

4628027,4628127,101,EXACT,AG-GT

4628463,4628821,359,START:Ends:4628926-4628997-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_035820 + 7 TTCTTCTCGATGGGGCGTTC VIII A..ATG

4623402,4623881,480,5' UTR

4623882,4624487,606,GT,END:Starts:4621708-4621742-4623402-,Old start=4622052

4624978,4625226,249,INTERNAL,EXACT,AG-GT

4625803,4625913,111,INTERNAL,EXACT,AG-GT

4626313,4626852,540,INTERNAL,EXACT,AG-GT

4627474,4627571,98,INTERNAL,EXACT,AG-GT

4628027,4628127,101,INTERNAL,EXACT,AG-GT

4628463,4628821,359,AG,START:Ends:4628926-4628997-,Old end=4628821

4628822,4628997,176,3' UTR

#####

ID=NCLIV_035840 + 6 TCGGGTTCATGGAGGCATC

4636926,4637441,516,END:Starts:4635889-4635902-4637379-

4637635,4637709,75,EXACT,AG-GT

4638043,4638138,96,EXACT,AG-GT

4638674,4638856,183,EXACT,AG-GT

4639161,4639286,126,EXACT,AG-GT

4639566,4641821,2256,START:Ends:4642750-4642643-4642553-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_035840 + 6 TCGGGTTCATGGAGGCATC VIII A..ATG

4637379,4637420,42,5' UTR

4637421,4637441,21,GT,END:Starts:4635889-4635902-4637379-,Old start=4636926

4637635,4637709,75,INTERNAL,EXACT,AG-GT

4638043,4638138,96,INTERNAL,EXACT,AG-GT

4638674,4638856,183,INTERNAL,EXACT,AG-GT

4639161,4639286,126,INTERNAL,EXACT,AG-GT

4639566,4641821,2256,AG,START:Ends:4642750-4642643-4642553-,Old end=4641821

4641822,4642750,929,3' UTR

#####

ID=NCLIV_035890 - 2 TATGCTGAGATGCCAATGGA

4687995,4688124,130,END:Starts:4687682-4687681-4687699-

4688542,4690226,1685

>> RNA-Seq evidence = 1/2 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_035900 - 4 GCTCAGGAAATGATTCGTGT

4697503,4697799,297,END:EXACT

4698110,4701184,3075,EXACT,AG-GT

4701528,4701604,77,EXACT,AG-GT

4701838,4702519,682,START:Ends:4703399-4705419-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_035900 - 4 GCTCAGGAAATGATTCGTGT VIII [CT]..ATG[ACT]

4702634,4703399,766,5' UTR

4701838,4702633,796,GT,START:Ends:4703399-4705419-,Old end=4702519

4701528,4701604,77,INTERNAL,EXACT,AG-GT

4698110,4701184,3075,INTERNAL,EXACT,AG-GT

4697503,4697799,297,AG,END:EXACT,Old start=4697503 (+ 1000)

4696503,4697504,1000,3' UTR

Leaky:ID=NCLIV_035900 - 4 GCTCAGGAAATGATTCGTGT VIII
GGAAATGA

4702520,4703399,880,5' UTR

4701838,4702519,682,GT,START:Ends:4703399-4705419-,Old end=4702519

4701528,4701604,77,INTERNAL,EXACT,AG-GT

4698110,4701184,3075,INTERNAL,EXACT,AG-GT

4697503,4697799,297,AG,END:EXACT,Old start=4697503 (+ 1000)

4696503,4697504,1000,3' UTR

#####

ID=NCLIV_035930 - 1 ATCCCGAGATGTCCAGGAA

4729115,4730605,1491

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_035980 + 1 GCGTTGCCGATGGTGGCCTT

4770394,4771824,1431

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_036010 - 16 GTCTCCGTCATGCATCCCGG

4781497,4781745,249,END:Starts:4779543-4780850-4780011-

4782249,4782309,61,EXACT,AG-GT

4782837,4783033,197,EXACT,AG-GT

4783344,4783640,297,END: start -151 AG-GC (ref:AC-GT)<< Possible error

4783990,4784126,137,EXACT,AG-GT

4784558,4784628,71,EXACT,AG-GT

4785183,4785248,66,EXACT,AG-GT

4785936,4786019,84,START: end 5 GT

4786455,4786736,282,END: start -3 AG (ref:AC-GT)<< Possible error

4787207,4787334,128,EXACT,AG-GT

4787739,4787846,108,EXACT,AG-GT

4788239,4788313,75,START: end 2 GT

4788522,4788674,153,END: start 1 AG (ref:AC-GT)<< Possible error

4788981,4789252,272,EXACT,AG-GT

4789806,4789860,55,EXACT,AG-GT

4790288,4790395,108,START:Ends:4791349-4791317-4791326-

>> RNA-Seq evidence = 16/16 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_036050 + 8 CCCTCCTTCATGGAGGAACA

4818619,4821028,2410

4821422,4821858,437

4822372,4823184,813

4823806,4825991,2186

4826600,4830592,3993

4830980,4831448,469

4832010,4834358,2349

4835147,4835188,42

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_036070 - 3 TTTTATTGCATGGCAGGCTA

4844459,4844499,41,END:Starts:4844205-4843610-4843665-

4844759,4844865,107,EXACT,AG-GT

4845359,4846023,665,START:EXACT

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_036080 - 18 AAAGAAGCCATGTCGAACTC

4847683,4847985,303,END:EXACT

4848235,4848323,89,EXACT,AG-GT

4848774,4848867,94,EXACT,AG-GT

4849327,4849425,99,EXACT,AG-GT

4849727,4849860,134,EXACT,AG-GT

4849999,4850126,128,START: end 114 GT

4850575,4850846,272
 4851325,4851488,164
 4851803,4852199,397
 4852930,4852995,66
 4853253,4853492,240
 4853817,4853855,39
 4854303,4854513,211,END: start 4 AG
 4854781,4854902,122,EXACT,AG-GT
 4855090,4855338,249,EXACT,AG-GT
 4855971,4856098,128,EXACT,AG-GT
 4856501,4856926,426,EXACT,AG-GT
 4857348,4857747,400,START:Ends:4859583-4859620-

>> RNA-Seq evidence = 12/18 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_036090 + 6 GTAGCAGCCATGTCGGGTTTC

4862155,4863505,1351
 4863872,4864140,269
 4864656,4864893,238
 4865261,4865375,115
 4865995,4867174,1180
 4867634,4868323,690

>> RNA-Seq evidence = NONE

>> Homology evidence = 237832870 0.0 93.8 80.54 1938 Toxoplasma gondii ME49
 hypothetical protein

#####

ID=NCLIV_036370 - 3 CTGCAAGCAATGCGTCGGCG

5056434,5056620,187

5056654,5056865,212

5056929,5056958,30

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_036420 - 5 TCTTTGTCAATGGGAAAAGC

5080712,5080729,18

5081136,5081183,48

5081964,5082032,69

5082651,5082733,83

5083798,5088328,4531

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_036440 + 6 GTTGAAGGGATGCCAGCTTG

5097863,5098514,652

5099226,5099442,217

5099690,5099984,295

5100164,5100289,126

5100480,5101506,1027

5102295,5104093,1799

>> RNA-Seq evidence = NONE

>> Homology evidence = 237832798 0.0 105.2 77.63 1341 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_036530 - 18 GCTCGTGCGATGTGCAATCT

5175467,5175571,105,END:Starts:5174951-5174947-5174935-

5176113,5176229,117,EXACT,AG-GT
 5176949,5177077,129,EXACT,AG-GT
 5177719,5177745,27,START: end 176 GT
 5178320,5178446,127,EXACT,AG
 5178882,5179551,670,EXACT,AG-GT
 5180065,5180205,141,EXACT,AG-GT
 5180681,5180744,64,EXACT,AG-GT
 5181386,5181442,57,EXACT,AG-GT
 5181743,5181846,104,EXACT,AG-GT
 5182145,5182294,150,EXACT,TAG|TGA|TAA:AG-GT
 5182902,5184486,1585,START: end -44 GT
 5184963,5185198,236
 5185342,5185564,223,EXACT,AG
 5186190,5186339,150,EXACT,AG-GT
 5187420,5187568,149,START: end -6 AG-GT
 5187814,5188852,1039
 5189497,5189577,81

>> RNA-Seq evidence = 15/18 (83.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_036550 - 1 TGAATCGCCATGCCGTCGAG

5199384,5201276,1893

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_036560 - 1 CAAGGACATATGGGGGGGAC

5203281,5204612,1332

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_036570 + 11 CTTGCTCAAATGGAAGGCCG

5208195,5208346,152,END:Starts:5206766-5206048-

5209126,5209444,319,EXACT,AG-GT

5210012,5210758,747,EXACT,AG-GT

5211321,5211348,28,EXACT,AG-GT

5212253,5212473,221,EXACT,AG-GT

5213098,5213298,201,END: start -6 GT (ref:AG-GT)<< Possible error

5213668,5213970,303,EXACT,AG-GT

5214379,5214711,333,EXACT,AG-GT

5215354,5215456,103,EXACT,AG-GT

5215929,5216099,171,EXACT,AG-GT

5216466,5216725,260,START:Ends:5217930-5218627-

>> RNA-Seq evidence = 11/11 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_036570 + 11 CTTGCTCAAATGGAAGGCCG VIII [CT]..ATG[ACT]

5206766,5208083,1318,5' UTR

5208084,5208346,263,GT,END:Starts:5206766-5206048-,Old start=5208195

5209126,5209444,319,INTERNAL,EXACT,AG-GT

5210012,5210758,747,INTERNAL,EXACT,AG-GT

5211321,5211348,28,INTERNAL,EXACT,AG-GT

5212253,5212473,221,INTERNAL,EXACT,AG-GT

5213098,5213298,201,INTERNAL,END: start -6 GT (ref:AG-GT)<< Possible error

5213668,5213970,303,INTERNAL,EXACT,AG-GT

5214379,5214711,333,INTERNAL,EXACT,AG-GT

5215354,5215456,103,INTERNAL,EXACT,AG-GT

5215929,5216099,171,INTERNAL,EXACT,AG-GT

5216466,5216725,260,AG,START:Ends:5217930-5218627-,Old end=5216725

5216726,5218627,1902,3' UTR

Leaky:ID=NCLIV_036570 + 11 CTTGCTCAAATGGAAGGCCG VIII TCAAATGG

5206766,5208194,1429,5' UTR

5208195,5208346,152,GT,END:Starts:5206766-5206048-,Old start=5208195

5209126,5209444,319,INTERNAL,EXACT,AG-GT

5210012,5210758,747,INTERNAL,EXACT,AG-GT

5211321,5211348,28,INTERNAL,EXACT,AG-GT

5212253,5212473,221,INTERNAL,EXACT,AG-GT

5213098,5213298,201,INTERNAL,END: start -6 GT (ref:AG-GT)<< Possible error

5213668,5213970,303,INTERNAL,EXACT,AG-GT

5214379,5214711,333,INTERNAL,EXACT,AG-GT

5215354,5215456,103,INTERNAL,EXACT,AG-GT

5215929,5216099,171,INTERNAL,EXACT,AG-GT

5216466,5216725,260,AG,START:Ends:5217930-5218627-,Old end=5216725

5216726,5218627,1902,3' UTR

#####

ID=NCLIV_036600 - 2 AAATCGCCAATGGGCAAGCA

5237240,5240779,3540

5241090,5243693,2604

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_036620 - 1 ATCTCCCAGATGGCGTCTCC

5256795,5257196,402

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_036650 + 6 TCTCTCCAGATGGCAGCGCC

5274010,5275417,1408

5275755,5275934,180

5276283,5277618,1336

5277953,5278229,277

5278552,5278659,108,END: start 62 GT

5278929,5279108,180,START:Ends:5279359-5279672-

>> RNA-Seq evidence = 2/6 (33.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_0367- 2 TTTTCCTCAATGGAATCTGA

5378671,5384078,5408

5385029,5385089,61

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_036710 + 8 AACACGCGAATGGTCTTCAC

5337229,5337555,327

5337758,5337934,177

5338044,5338191,148

5338500,5338617,118

5339464,5339626,163

5340625,5340780,156

5341221,5341391,171

5342644,5342754,111

>> RNA-Seq evidence = NONE

>> Homology evidence = 237832732 0.0 104.0 90.51 863 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_036730 + 3 GACATAGACATGCGCTTCTT

5349689,5350642,954

5350935,5351102,168

5351517,5351942,426

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_036790 + 2 TTTGTCGCGATGACGGCGCT

5393076,5394728,1653

5394873,5397155,2283

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_036820 + 4 GCACGAGGGATGCCACGGGA

5432260,5434472,2213,END:EXACT

5436153,5436632,480,EXACT,AG-GT

5437272,5437502,231,EXACT,AG-GT

5437756,5438281,526,START:Ends:5441731-5441737-5441800-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_036880 + 3 GCCGACCAGATGGCGGAACC

5485343,5485520,178

5485843,5485976,134

5486300,5486500,201

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_036900 + 2 AGAGACGACATGCACGCATG

5498264,5498805,542,END:Starts:5495239-5495209-5495804-

5499321,5500458,1138,START:Ends:5503329-5503751-5503182-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_036920 + 3 GAAGCCCACATGGAGAATCC

5509691,5509825,135

5510345,5510476,132

5510610,5510768,159

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_036940 - 13 CCGCGGGTGATGAGAGGTGC

5520166,5520203,38,END:Starts:5517763-5519198-5519156-

5520657,5520726,70,EXACT,AG-GT

5521278,5521332,55,EXACT,AG-GT

5521982,5522040,59,EXACT,AG-GT

5522699,5522761,63,EXACT,AG-GT

5523144,5523498,355,EXACT,AG-GT

5523766,5523840,75,END: start -1 AG

5524539,5524618,80,START: end 1044 AG-GT (ref:AC-GT)<< Possible error

5524986,5525040,55,OVER: start -447 and end 622 AG-GT (ref:AC-GT)<< Possible error

5525512,5525662,151,END: start -973 AG-GT (ref:AC-GT)<< Possible error

5526170,5526299,130,EXACT,AG-GT

5526745,5527020,276,EXACT,AG-GT

5527477,5527554,78,START:Ends:5529652-5528586-5529667-

>> RNA-Seq evidence = 12/13 (92.3%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_036940 - 13 CCGCGGGTGATGAGAGGTGC VIII A..ATG

5527741,5528586,846,5' UTR

5527477,5527740,264,GT,START:Ends:5529652-5528586-5529667-,Old end=5527554

5526745,5527020,276,INTERNAL,EXACT,AG-GT

5526170,5526299,130,INTERNAL,EXACT,AG-GT

5525512,5525662,151,INTERNAL,END: start -973 AG-GT (ref:AC-GT)<< Possible error

5524986,5525040,55,INTERNAL,OVER: start -447 and end 622 AG-GT (ref:AC-GT)<< Possible error

5524539,5524618,80,INTERNAL,START: end 1044 AG-GT (ref:AC-GT)<< Possible error

5523766,5523840,75,INTERNAL,END: start -1 AG

5523144,5523498,355,INTERNAL,EXACT,AG-GT

5522699,5522761,63,INTERNAL,EXACT,AG-GT

5521982,5522040,59,INTERNAL,EXACT,AG-GT

5521278,5521332,55,INTERNAL,EXACT,AG-GT

5520657,5520726,70,INTERNAL,EXACT,AG-GT

5520166,5520203,38,AG,END:Starts:5517763-5519198-5519156-,Old start=5520166

5517763,5520167,2403,3' UTR

#####

ID=NCLIV_037010 + 5 CTGGTAGAAATGATCAGCAA

5591516,5591699,184

5592208,5592471,264

5592675,5592905,231

5593474,5593614,141

5594101,5594867,767

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_037020 - 10 ACCGCACCAATGGACGGTGC

5597085,5597159,75,OVER:Starts:5596770-5596779-5596674-

5597452,5597551,100,EXACT,AG-GT

5597880,5597932,53,EXACT,AG-GT

5598147,5598227,81,START: end 135 AG-GT

5598861,5598933,73

5599372,5599492,121

5599841,5599995,155,EXACT,AG-GT

5600637,5600808,172,END: start 72 AG-GC

5600929,5601505,577,EXACT,AG-GT

5601677,5602849,1173,START:Ends:5603952-5604265-

>> RNA-Seq evidence = 7/10 (70.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_037030 + 1 AGTTCGCTATGAAGCGTGT

5605928,5609026,3099

>> RNA-Seq evidence = NONE

>> Homology evidence = 237832662 0.0 103.1 81.16 691 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_037050 + 9 AGTGGAGACATGACCAATCC

5626045,5626659,615

5626712,5626866,155
 5627741,5629044,1304
 5629523,5629812,290
 5630567,5630740,174
 5631275,5631467,193
 5631762,5632013,252
 5632228,5632615,388
 5632843,5637049,4207

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_037190 - 2 GGGCGGGCAATGACGCGCGG
 5752362,5753085,724,END:Starts:5751416-5751517-
 5753594,5755956,2363,START:Ends:5756310-5754582-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_037200 - 12 GCGTGGCGAATGGAGTTCCG
 5758518,5758582,65,END:Starts:5757486-5757605-5757538-
 5758937,5759079,143,START: end 558 AG-GT (ref:AC-GT)<< Possible error
 5759492,5759637,146,END: start -555 AG-GT (ref:AC-GT)<< Possible error
 5760053,5760166,114,EXACT,AG-GT
 5760403,5760463,61,EXACT,AG-GT
 5760862,5761092,231,EXACT,AG-GT
 5761271,5761350,80,EXACT,AG-GT
 5761750,5762079,330,EXACT,AG-GT
 5762447,5762765,319,EXACT,AG-GT
 5763004,5763086,83,EXACT,ATG:AG-GT

5763310,5763487,178,EXACT,AG-GT

5763825,5770024,6200,START:Ends:5768784-5768785-5768813-

>> RNA-Seq evidence = 12/12 (100.0%)

>> Homology evidence = 237832626 0.0 99.3 81.44 1845 Toxoplasma gondii ME49
MIF4G domain-containing protein

>> Alternative start codon

ID=NCLIV_037200 - 12 GCGTGGCGAATGGAGTTCCG VIII [CT]..ATG[ACT]

5768666,5768784,119,5' UTR

5763825,5768665,4841,GT,START:Ends:5768784-5768785-5768813-,Old end=5770024

5763310,5763487,178,INTERNAL,EXACT,AG-GT

5763004,5763086,83,INTERNAL,EXACT,ATG:AG-GT

5762447,5762765,319,INTERNAL,EXACT,AG-GT

5761750,5762079,330,INTERNAL,EXACT,AG-GT

5761271,5761350,80,INTERNAL,EXACT,AG-GT

5760862,5761092,231,INTERNAL,EXACT,AG-GT

5760403,5760463,61,INTERNAL,EXACT,AG-GT

5760053,5760166,114,INTERNAL,EXACT,AG-GT

5759492,5759637,146,INTERNAL,END: start -555 AG-GT (ref:AC-GT)<< Possible error

5758937,5759079,143,INTERNAL,START: end 558 AG-GT (ref:AC-GT)<< Possible error

5758518,5758582,65,AG,END:Starts:5757486-5757605-5757538-,Old start=5758518

5757486,5758519,1032,3' UTR

Leaky:ID=NCLIV_037200 - 12 GCGTGGCGAATGGAGTTCCG VIII G..ATGG

5768393,5768784,392,5' UTR

5763825,5768392,4568,GT,START:Ends:5768784-5768785-5768813-,Old end=5770024

5763310,5763487,178,INTERNAL,EXACT,AG-GT

5763004,5763086,83,INTERNAL,EXACT,ATG:AG-GT

5762447,5762765,319,INTERNAL,EXACT,AG-GT

5761750,5762079,330,INTERNAL,EXACT,AG-GT

5761271,5761350,80,INTERNAL,EXACT,AG-GT

5760862,5761092,231,INTERNAL,EXACT,AG-GT
 5760403,5760463,61,INTERNAL,EXACT,AG-GT
 5760053,5760166,114,INTERNAL,EXACT,AG-GT
 5759492,5759637,146,INTERNAL,END: start -555 AG-GT (ref:AC-GT)<< Possible error
 5758937,5759079,143,INTERNAL,START: end 558 AG-GT (ref:AC-GT)<< Possible error
 5758518,5758582,65,AG,END:Starts:5757486-5757605-5757538-,Old start=5758518
 5757486,5758519,1032,3' UTR

#####

ID=NCLIV_037350 + 9 GTGGAGCGAATGGTTCTCGC

5888614,5889673,1060,END:Starts:5887632-5887595-
 5890275,5890390,116,EXACT,AG-GT
 5891297,5891371,75,EXACT,AG
 5891580,5891760,181,END: start 13 AG-GT (ref:AG-GT)<< Possible error
 5892251,5892516,266,EXACT,AG-GT
 5892816,5893261,446,EXACT,AG-GT
 5893605,5893707,103,EXACT,AG-GT
 5894253,5894462,210,EXACT,AG-GT
 5894895,5895128,234,START:Ends:5895962-5896095-5896073-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = 237832590 0.0 84.9 79.14 1142 Toxoplasma gondii ME49
 ABC transporter

>> Alternative start codon

ID=NCLIV_037350 + 9 GTGGAGCGAATGGTTCTCGC VIII A..ATG

5887632,5887944,313,5' UTR
 5887945,5889673,1729,GT,END:Starts:5887632-5887595-,Old start=5888614
 5890275,5890390,116,INTERNAL,EXACT,AG-GT
 5891297,5891371,75,INTERNAL,EXACT,AG
 5891580,5891760,181,INTERNAL,END: start 13 AG-GT (ref:AG-GT)<< Possible error
 5892251,5892516,266,INTERNAL,EXACT,AG-GT

5892816,5893261,446,INTERNAL,EXACT,AG-GT

5893605,5893707,103,INTERNAL,EXACT,AG-GT

5894253,5894462,210,INTERNAL,EXACT,AG-GT

5894895,5895128,234,AG,START:Ends:5895962-5896095-5896073-,Old end=5895128

5895129,5896095,967,3' UTR

#####

ID=NCLIV_037390 - 8 GAAACCCTCATGGGATCTCA

5915923,5916223,301,END:Starts:5910560-5915177-5911798-

5916979,5917050,72,EXACT,AG-GT

5917343,5917447,105,EXACT,AG-GT

5917913,5918001,89,EXACT,AG-GT

5918259,5918365,107,END: start -21 AG-GC (ref:AC-GT)<< Possible error

5918613,5918758,146,EXACT,ATG:AG-GT

5918983,5919247,265,EXACT,AG-GT

5919554,5919620,67,START:Ends:5919865-5920454-

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_037440 + 3 AAGAACGAAATGTGGCCGCA

5944370,5944576,207,END:Starts:5943255-5943245-5943447-

5944937,5945225,289,EXACT,AG-GT

5945920,5946071,152,START:Ends:5946201-5946217-5946211-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_037440 + 3 AAGAACGAAATGTGGCCGCA VIII [CT]..ATG[ACT]

5943447,5944330,884,5' UTR

5944331,5944576,246,GT,END:Starts:5943255-5943245-5943447-,Old start=5944370

5944937,5945225,289,INTERNAL,EXACT,AG-GT

5945920,5946071,152,AG,START:Ends:5946201-5946217-5946211-,Old end=5946071

5946072,5946217,146,3' UTR

Leaky:ID=NCLIV_037440 + 3 AAGAACGAAATGTGGCCGCA VIII CGAAATGT

5943447,5944369,923,5' UTR

5944370,5944576,207,GT,END:Starts:5943255-5943245-5943447-,Old start=5944370

5944937,5945225,289,INTERNAL,EXACT,AG-GT

5945920,5946071,152,AG,START:Ends:5946201-5946217-5946211-,Old end=5946071

5946072,5946217,146,3' UTR

#####

ID=NCLIV_037450 - 2 GTCCCCGCCATGCTGCTCTA

5954837,5954962,126,END:Starts:5954688-5954695-5954629-

5955787,5958291,2505,START:Ends:5960139-5960129-5960171-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_037580 - 6 CGTGCGGCAATGTCACGCAG

6055612,6056300,689,OVER:Starts:6055328-6055313-6055273-

6056820,6057309,490,EXACT,AG-GT

6057758,6057955,198,EXACT,AG-GT

6058405,6058472,68,EXACT,AG-GT

6058734,6058914,181,START: end 289 AG-GT

6059544,6060371,828

>> RNA-Seq evidence = 4/6 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_0376- 16 CACTTCTCCATGGAAGCCTT

6079736,6079804,69,END:Starts:6077097-6076902-6077149-

6080376,6080465,90,EXACT,AG-GT
6080925,6081021,97,EXACT,AG-GT
6081172,6081334,163,EXACT,AG-GT
6082019,6082103,85,EXACT,AG-GT
6082696,6082942,247,START: end 714 AG-GT
6083259,6083373,115,OVER: start -563 and end 283 AG-GT
6083835,6084542,708
6084899,6085540,642
6085700,6086701,1002,EXACT,Info:AG-GT-donor=CA-AG-GC-
6087371,6087722,352,EXACT,AG-GT
6088122,6088753,632
6089170,6089455,286
6089935,6090144,210
6090515,6090948,434
6091300,6091381,82

>> RNA-Seq evidence = 8/16 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_037610 - 4 AGTCTCGAGATGCGAGGCTC

6070247,6070310,64,END:Starts:6069635-6069614-6069546-

6070988,6071094,107,EXACT,AG-GT

6071444,6071558,115,EXACT,AG-GT

6071939,6072207,269,START:EXACT

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_037720 + 11 TACCAACGTATGGCGGATCC

6121844,6121924,81,END:Starts:6121440-6121444-

6122086,6122166,81,EXACT,AG-GT
6122548,6122609,62,EXACT,AG-GT
6122727,6122803,77,START: end -50 AG
6122927,6122967,41
6123103,6123273,171,END: start 17 GT (ref:AG-GT)<< Possible error
6123381,6123447,67,EXACT,AG-GT
6123592,6123711,120,EXACT,AG-GT
6123839,6123932,94,EXACT,AG-GT
6124039,6124093,55,EXACT,AG-GT
6124236,6124340,105,START:Ends:6125845-6125806-6126131-

>> RNA-Seq evidence = 10/11 (90.9%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_037720 + 11 TACCAACGTATGGCGGATCC VIII G..ATGG

6121444,6121798,355,5' UTR
6121799,6121924,126,GT,END:Starts:6121440-6121444-,Old start=6121844
6122086,6122166,81,INTERNAL,EXACT,AG-GT
6122548,6122609,62,INTERNAL,EXACT,AG-GT
6122727,6122803,77,INTERNAL,START: end -50 AG
6122927,6122967,41,INTERNAL,
6123103,6123273,171,INTERNAL,END: start 17 GT (ref:AG-GT)<< Possible error
6123381,6123447,67,INTERNAL,EXACT,AG-GT
6123592,6123711,120,INTERNAL,EXACT,AG-GT
6123839,6123932,94,INTERNAL,EXACT,AG-GT
6124039,6124093,55,INTERNAL,EXACT,AG-GT
6124236,6124340,105,AG,START:Ends:6125845-6125806-6126131-,Old end=6124340
6124341,6126131,1791,3' UTR

#####

ID=NCLIV_037740 - 4 GTTTCGGAGATGTGGGTCCG

6127690,6127733,44,END:Starts:6127141-6127280-6127203-
 6128137,6128217,81,EXACT,AG-GT
 6128340,6128400,61,START: end 3 GT
 6128884,6129060,177,OVER:Ends:6129821-6129411-6129620-

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_037760 - 9 ATTCGGCGAATGGCCGGGGT

6141082,6141288,207,END:Starts:6140574-6140512-6140502-
 6141776,6141948,173,EXACT,AG-GT
 6142427,6142643,217,EXACT,AG-GT
 6142913,6142971,59,EXACT,AG-GT
 6143353,6143503,151,EXACT,AG-GT
 6143691,6144105,415,EXACT,AG-GT
 6144321,6144547,227,EXACT,GT
 6144878,6145236,359,END: start 7 Info:donor=GA-AG-GT-AG-GC- (ref:AC-GT)<< Possible error
 6145614,6145746,133,START:EXACT

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_037800 + 3 GTCTCTTCGATGGCGAGAGT

6184820,6187275,2456,END:Starts:6187046-6186107-
 6187728,6188286,559,START: end 918 AG
 6188866,6188919,54,OVER:Ends:6187737-6189204-6189270-

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_037800 + 3 GTCTCTTCGATGGCGAGAGT VIII [CT]..ATG[ACT]

6187046,6187204,159,5' UTR

6187205,6187275,71,GT,END:Starts:6187046-6186107-,Old start=6184820

6187728,6188286,559,INTERNAL,START: end 918 AG

6188866,6188919,54,AG,OVER:Ends:6187737-6189204-6189270-,Old end=6188919

6188920,6189270,351,3' UTR

Leaky:ID=NCLIV_037800 + 3 GTCTCTTCGATGGCGAGAGT VIII A..ATG

6187046,6187222,177,5' UTR

6187223,6187275,53,GT,END:Starts:6187046-6186107-,Old start=6184820

6187728,6188286,559,INTERNAL,START: end 918 AG

6188866,6188919,54,AG,OVER:Ends:6187737-6189204-6189270-,Old end=6188919

6188920,6189270,351,3' UTR

#####

ID=NCLIV_037850 - 1 GTCGCCGATATGAGAGTTGC

6260717,6262264,1548

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_037890 + 3 ACAAACTCGATGGCGCCTGC

6284526,6284587,62

6284961,6289549,4589,END: start 1622 GT (ref:AG-GT)<< Possible error

6289936,6290318,383,START:Ends:6290496-6290857-6290842-

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_037910 - 16 TTCTCCTCGATGGTTTGCCC

6299644,6299703,60,END:Starts:6298610-6298624-6298773-

6300090,6300145,56,EXACT,AG-GT

6300348,6300492,145,EXACT,AG-GT
6300919,6301020,102,EXACT,AG-GT
6301341,6301396,56,EXACT,AG-GT
6301624,6301684,61,EXACT,TAG|TGA|TAA:AG-GT
6301882,6301949,68,EXACT,AG-GT
6302075,6302157,83,EXACT,AG-GT
6302570,6302630,61,EXACT,AG-GT
6302911,6303055,145,EXACT,TAG|TGA|TAA:AG-GT
6303481,6303521,41,EXACT,AG-GT
6303965,6304071,107,EXACT,AG-GT
6304704,6304876,173,END: start 39 AG-GC
6305309,6305395,87,START: end 881 GT
6306031,6306276,246,END: start -722 GT
6306807,6307016,210,START:Ends:6307840-6308624-

>> RNA-Seq evidence = 16/16 (100.0%)

>> Homology evidence = 237832476 0.0 86.6 81.10 771 Toxoplasma gondii ME49
RNA helicase

#####

ID=NCLIV_037990 - 8 TTTTTCGCGATGAAGGCAGG

6369669,6370376,708
6371006,6371052,47,END: start -872 AG-GT
6371517,6371650,134,EXACT,AG-GT
6372286,6372425,140,EXACT,GT
6372785,6372917,133,EXACT,AG
6373544,6373695,152,START: end -33 GT
6374094,6374216,123,END: start -168 AG
6374672,6374761,90,START:Ends:6375025-6375031-

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_038025 + 3 TCTCCTGAAATGAACTCTCC

6411442,6411718,277

6412721,6413749,1029

6414156,6416809,2654

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_038040 - 3 TTGACCGCGATGTCGTACCT

6433092,6434184,1093

6434633,6443846,9214

6444123,6445761,1639

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_038090 + 4 CGGCGACCCATGGCTCAAAG

6477298,6479452,2155

6479962,6481568,1607,EXACT,GT

6482084,6482139,56,EXACT,AG

6482490,6483333,844

>> RNA-Seq evidence = 2/4 (50.0%)

>> Homology evidence = 237832432 0.0 143.8 77.45 664 Toxoplasma gondii ME49
 helicase conserved C-terminal domain-containing protein

*** **CHROMOSOME IX**

#####

ID=NCLIV_038340 - 9 TTGAACGCTATGTGGGAATC
 25495,25972,478
 26026,26230,205
 26292,26365,74
 26452,26786,335
 26853,26928,76,OVER: start -216 and end 1478 AG (ref:AC-GT)<< Possible error
 26981,27114,134,OVER: start -344 and end 1292 AG (ref:AC-GT)<< Possible error
 27240,27675,436,OVER: start -603 and end 731 AG (ref:AC-GT)<< Possible error
 27711,27888,178,OVER: start -1074 and end 518 AG (ref:AC-GT)<< Possible error
 28016,28295,280,OVER:Starts:26393-26637-27499-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_038420 + 6 GACAGCGAGATGCCGCGAGC
 76973,77102,130,END:Starts:76628-76629-
 77318,77527,210,EXACT,AG-GT
 78028,78164,137,EXACT,AG-GT
 78705,78918,214,START: end 951 AG-GT (ref:AG-GT)<< Possible error
 79792,79869,78,END: start -1087 AG-GT (ref:AG-GT)<< Possible error
 80327,80394,68,START:EXACT

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_038420 + 6 GACAGCGAGATGCCGCGAGC IX G..ATGG
 76629,76723,95,5' UTR
 76724,77102,379,GT,END:Starts:76628-76629-,Old start=76973

77318,77527,210,INTERNAL,EXACT,AG-GT
78028,78164,137,INTERNAL,EXACT,AG-GT
78705,78918,214,INTERNAL,START: end 951 AG-GT (ref:AG-GT)<< Possible error
79792,79869,78,INTERNAL,END: start -1087 AG-GT (ref:AG-GT)<< Possible error
80327,80394,68,AG,START:EXACT,Old end=80394 (-1000)
80395,81394,1000,3' UTR

#####

ID=NCLIV_038460 + 7 GATCAGGAGATGCTTGTGAA

110317,110850,534,END:Starts:109642-109731-109746-
111084,111257,174,EXACT,AG-GT
111377,111571,195,EXACT,AG-GT
111741,111976,236,EXACT,AG-GT
112272,112335,64,EXACT,AG-GT
112769,112827,59,EXACT,AG
113305,113431,127

>> RNA-Seq evidence = 6/7 (85.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_038460 + 7 GATCAGGAGATGCTTGTGAA IX A..ATG

109746,110253,508,5' UTR
110254,110850,597,GT,END:Starts:109642-109731-109746-,Old start=110317
111084,111257,174,INTERNAL,EXACT,AG-GT
111377,111571,195,INTERNAL,EXACT,AG-GT
111741,111976,236,INTERNAL,EXACT,AG-GT
112272,112335,64,INTERNAL,EXACT,AG-GT
112769,112827,59,INTERNAL,EXACT,AG
113305,113431,127,AG,.,Old end=113431 (-1000)
113432,114431,1000,3' UTR

#####

ID=NCLIV_038470 - 2 TGGAGAGCGATGTTTGAGAG
116197,125376,9180,OVER:Starts:112917-113307-113230-
125494,131577,6084,OVER:Starts:112917-113307-113230-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_038480 + 2 GCCGGGGATATGAGTGCGTC
138548,138628,81,END:Starts:136460-136600-136610-
139046,139360,315

>> RNA-Seq evidence = 1/2 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_038490 - 13 CTTGCCTCGATGGCGTCTTC
144016,144185,170
144588,144711,124
145072,145252,181
145901,146094,194
146364,146499,136
147021,147220,200
147520,147648,129
148377,148429,53
148999,149082,84
149435,149525,91
150126,150313,188
150506,150724,219
151316,151535,220

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_038500 + 6 GCGGTCGAAATGCCGCCACC

155489,155637,149

156165,160083,3919

160537,161146,610

161387,161707,321

162039,162288,250

162602,167795,5194

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_038560 - 11 TCTGTCGCCATGCTGTCTGT

207076,207111,36,END:Starts:205406-204831-205389-

207648,208829,1182,EXACT,AG-GT

209303,209753,451,EXACT,AG-GT

210418,210899,482,EXACT,AG-GT

211653,213345,1693,START: end -38 GT

213620,214047,428,END: start -604 AG

214367,217599,3233,START: end -1911 GT

218094,218355,262

218612,219040,429

219239,219359,121

219495,220276,782

>> RNA-Seq evidence = 7/11 (63.6%)

>> Homology evidence = NONE

#####

ID=NCLIV_038580 - 11 GCCTTCGCCATGACGACTCC

235847,236584,738,END:EXACT
 237464,237520,57,EXACT,AG-GT
 237999,238105,107,EXACT,AG-GT
 238886,239012,127,EXACT,AG-GT
 239406,239522,117,EXACT,AG-GT
 239921,240017,97,EXACT,AG-GT
 240391,240517,127,EXACT,AG-GT
 240949,241080,132,EXACT,AG-GT
 241394,241552,159,EXACT,AG-GT
 241939,242014,76,EXACT,AG-GT
 242558,242872,315,START:Ends:244045-242724-244066-

>> RNA-Seq evidence = 11/11 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_038700 - 11 AGTGCCTTCATGGCTTGTCG

324677,324761,85,END:Starts:323093-323173-323157-
 325084,325206,123,EXACT,AG-GT
 325619,325786,168,EXACT,AG-GT
 326081,326166,86,EXACT,AG-GT
 326625,326729,105,EXACT,AG-GT
 327469,327726,258,EXACT,AG-GT
 328048,328201,154,EXACT,AG-GT
 328712,329309,598,START: end -16 GT
 330016,330153,138
 330687,330785,99
 331142,331379,238

>> RNA-Seq evidence = 8/11 (72.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_038720 + 3 CACAAGGACATGAGAGAAGT

336276,336347,72

336555,336955,401

337276,339829,2554

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_038780 - 2 TATTTTCAGATGGCGCCTGT

381608,381919,312,END:Starts:381529-381584-381508-

382024,382116,93,EXACT,ATG:AG-GT

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_038780 - 2 TATTTTCAGATGGCGCCTGT IX A..ATG

382237,383116,880,5' UTR

382024,382236,213,GT,EXACT,Old end=382116 (-1000)

381608,381919,312,AG,END:Starts:381529-381584-381508-,Old start=381608

381508,381609,100,3' UTR

#####

ID=NCLIV_038810 + 9 GAGTATCTGATGGAGAGGCG

390215,390492,278,END:Starts:389615-389606-

391334,391409,76,EXACT,AG-GT

392017,392453,437,START: end -9 AG-GC

392865,393178,314,START: end -49 AG

393727,394066,340,END: start 58 GT

394369,394600,232,EXACT,AG-GT

394903,399878,4976,EXACT,AG-GT

400769,401670,902,EXACT,AG-GT

402166,402212,47,START:Ends:402932-402900-402819-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_038820 + 5 CTCCAACCAATGGAGACCTC

405240,405800,561

406402,406603,202

407130,408407,1278

408972,409046,75

409364,411561,2198

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_038850 + 8 GCTTCCGCTATGAAAACCTC

418677,418944,268,END:Starts:418207-418209-

419499,419721,223,EXACT,AG-GT

420284,420428,145,EXACT,AG-GT

420853,421008,156,EXACT,AG-GT

421355,421751,397,EXACT,AG-GT

421953,422237,285,EXACT,AG-GT

422473,422738,266,EXACT,AG-GT

423014,423103,90,START:Ends:423874-423908-423901-

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_038850 + 8 GCTTCCGCTATGAAAACCTC IX [CT]..ATG[ACT]

418209,418568,360,5' UTR

418569,418944,376,GT,END:Starts:418207-418209-,Old start=418677

419499,419721,223,INTERNAL,EXACT,AG-GT

420284,420428,145,INTERNAL,EXACT,AG-GT

420853,421008,156,INTERNAL,EXACT,AG-GT

421355,421751,397,INTERNAL,EXACT,AG-GT

421953,422237,285,INTERNAL,EXACT,AG-GT

422473,422738,266,INTERNAL,EXACT,AG-GT

423014,423103,90,AG,START:Ends:423874-423908-423901-,Old end=423103

423104,423908,805,3' UTR

Leaky:ID=NCLIV_038850 + 8 GCTTCCGCTATGAAAACCTC IX CGCTATGA

418209,418676,468,5' UTR

418677,418944,268,GT,END:Starts:418207-418209-,Old start=418677

419499,419721,223,INTERNAL,EXACT,AG-GT

420284,420428,145,INTERNAL,EXACT,AG-GT

420853,421008,156,INTERNAL,EXACT,AG-GT

421355,421751,397,INTERNAL,EXACT,AG-GT

421953,422237,285,INTERNAL,EXACT,AG-GT

422473,422738,266,INTERNAL,EXACT,AG-GT

423014,423103,90,AG,START:Ends:423874-423908-423901-,Old end=423103

423104,423908,805,3' UTR

#####

ID=NCLIV_038890 + 5 GGAGTCGCCATGAGCTCGTT

453317,455610,2294,END:Starts:450741-454545-450749-

455827,455929,103,EXACT,AG-GT

456410,456819,410,EXACT,AG-GT

457104,457252,149,EXACT,AG-GT

457549,458210,662,START:Ends:460478-459005-460631-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_038890 + 5 GGAGTCGCCATGAGCTCGTT IX G..ATGG

454545,455407,863,5' UTR

455408,455610,203,GT,END:Starts:450741-454545-450749-,Old start=453317

455827,455929,103,INTERNAL,EXACT,AG-GT

456410,456819,410,INTERNAL,EXACT,AG-GT

457104,457252,149,INTERNAL,EXACT,AG-GT

457549,458210,662,AG,START:Ends:460478-459005-460631-,Old end=458210

458211,460631,2421,3' UTR

#####

ID=NCLIV_039150 - 6 TCAGGGGCAATGCCGAACCA

625063,625226,164

625278,625296,19

625363,625405,43

625458,625518,61

625577,625622,46

625685,626125,441

>> RNA-Seq evidence = NONE

>> Homology evidence = 237838944 0.0 25.9 86.07 819 Toxoplasma gondii ME49
protein kinase

#####

ID=NCLIV_039200 + 3 TCTTCGGCGATGTCGACTGT

645633,646110,478,END:Starts:644450-644585-

646518,646608,91,START: end 144 AG

647274,647577,304

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_039200 + 3 TCTTCGGCGATGTCGACTGT IX [CT]..ATG[ACT]

644585,644939,355,5' UTR

644940,646110,1171,GT,END:Starts:644450-644585-,Old start=645633

646518,646608,91,INTERNAL,START: end 144 AG

647274,647577,304,AG,,Old end=647577 (-1000)

647578,648577,1000,3' UTR

Leaky:ID=NCLIV_039200 + 3 TCTTCGGCGATGTCGACTGT IX
[CT]..ATG[ACT]

644585,644960,376,5' UTR

644961,646110,1150,GT,END:Starts:644450-644585-,Old start=645633

646518,646608,91,INTERNAL,START: end 144 AG

647274,647577,304,AG,,Old end=647577 (-1000)

647578,648577,1000,3' UTR

#####

ID=NCLIV_039350 - 7 GTGTCGGGAATGACAACGTC

729788,730944,1157

731194,731369,176

731773,731918,146,END: start 1 AG

732044,732142,99,END: start 18 AG-GT

732760,732819,60,EXACT,GT

733617,735838,2222,END: start 593 AG

736187,737045,859

>> RNA-Seq evidence = 4/7 (57.1%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_039350 - 7 GTGTCGGGAATGACAACGTC IX [CT]..ATG[ACT]

737724,738045,322,5' UTR

736187,737723,1537,GT,,Old end=737045 (-1000)

733617,735838,2222,INTERNAL,END: start 593 AG

732760,732819,60,INTERNAL,EXACT,GT

732044,732142,99,INTERNAL,END: start 18 AG-GT

731773,731918,146,INTERNAL,END: start 1 AG

731194,731369,176,INTERNAL,

729788,730944,1157,AG,,Old start=729788 (+ 1000)

728788,729789,1000,3' UTR

Leaky:ID=NCLIV_039350 - 7 GTGTCGGGAATGACAACGTC IX
[CT]..ATG[ACT]

737640,738045,406,5' UTR

736187,737639,1453,GT,,Old end=737045 (-1000)

733617,735838,2222,INTERNAL,END: start 593 AG

732760,732819,60,INTERNAL,EXACT,GT

732044,732142,99,INTERNAL,END: start 18 AG-GT

731773,731918,146,INTERNAL,END: start 1 AG

731194,731369,176,INTERNAL,

729788,730944,1157,AG,,Old start=729788 (+ 1000)

728788,729789,1000,3' UTR

#####

ID=NCLIV_039430 - 2 ACTGGGGCCATGTCCCGCTT

797784,797997,214

798451,798464,14

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_039450 - 4 TTTTCTCAGATGGTAAGTCC

814736,815410,675,END:Starts:813923-813914-

815680,815802,123,START: end -32 GT

816158,816220,63

816610,816612,3

>> RNA-Seq evidence = 2/4 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_039480 - 2 ACGATTTTTATGGACACGAT

834453,834662,210,END:Starts:834220-834206-

835252,835326,75,OVER:Ends:835496-835634-

>> RNA-Seq evidence = 1/2 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_039660 + 5 CCTTTGCTGATGGAGGAGGA

975484,976880,1397

977406,977894,489

978375,979618,1244,EXACT,GT

980207,982836,2630,END: start 872 GT

983551,983742,192,START:Ends:984592-984723-985391-

>> RNA-Seq evidence = 3/5 (60.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_039670 + 6 ACTCTCCACATGGCGCAGCC

986945,987343,399,END:Starts:986029-986077-985557-

987941,988150,210,EXACT,AG-GT

988467,988586,120,EXACT,AG-GT

988877,991253,2377,EXACT,AG-GT

991785,991953,169,EXACT,AG-GT

992285,992648,364,START:Ends:996033-996995-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_039730 - 14 GGTTTTTCAGATGGCATCATT

1032895,1034274,1380

1034498,1034587,90

1034911,1034976,66

1035263,1035364,102,EXACT,Code:INTERNAL-

1035913,1036058,146,START: end 63 GT

1037093,1037208,116

1037818,1037873,56

1038458,1038612,155

1038953,1039058,106

1039326,1039633,308,EXACT,Info:AG-GC-AG-GT-

1039950,1040070,121,START: end 314 AG-GT (ref:AC-GT)<< Possible error

1040122,1040384,263,END: start -172 AG-GT (ref:AC-GT)<< Possible error

1040806,1043479,2674,START: end -2032 GT

1044131,1044868,738

>> RNA-Seq evidence = 6/14 (42.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_039740 + 1 CACGAAGCAATGAGTTTTTC

1048436,1050400,1965,OVER:Ends:1050753-1050927-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_039780 - 7 AAACGCGAAATGCACGACAT

1075578,1075674,97,END:Starts:1073894-1073838-1073798-

1076225,1077136,912,EXACT,AG-GT
 1077477,1077583,107,EXACT,AG-GT
 1077874,1078209,336,START: end -21 GT
 1078628,1078956,329,END: start 22 AG (ref:AC-GT)<< Possible error
 1079342,1080499,1158,START: end -30 GT
 1080740,1081232,493

>> RNA-Seq evidence = 6/7 (85.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_039790 + 4 AGGAGAGAGATGACGACTCC

1086517,1086598,82,END:Starts:1085618-1085650-1086453-

1087277,1087329,53,EXACT,AG-GT

1087725,1088218,494,EXACT,AG-GT

1088651,1089035,385,START:Ends:1091142-1090281-1093754-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_039810 + 4 TCAAACGAGATGCTGGAGCC

1095256,1095522,267

1095578,1095800,223

1095864,1096012,149

1096232,1096285,54

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_039830 + 7 TGCGCAGCAATGCCAGCAGG

1105941,1106328,388,END:EXACT

1106619,1107019,401,EXACT,AG-GT
 1107364,1107464,101,EXACT,AG-GT
 1107649,1107736,88,EXACT,AG-GT
 1108269,1108361,93,EXACT,AG-GT
 1108959,1110201,1243,START: end 2019 AG
 1110627,1110739,113,OVER:Ends:1113592-1111188-1112220-

>> RNA-Seq evidence = 6/7 (85.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_040000 + 5 TCGTCCGGGATGCCTGCGTC

1197077,1197379,303,END:Starts:1195775-1195994-1196107-
 1197811,1198060,250,EXACT,AG-GT
 1198307,1198524,218,EXACT,ATG:AG-GT
 1198942,1199216,275,EXACT,AG-GT
 1200507,1200873,367,START:Ends:1201863-1202351-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_040010 + 10 GCGGACGCCATGACGCAAAA

1210964,1211585,622,END:EXACT
 1212156,1212395,240,EXACT,AG-GT
 1212722,1213508,787,EXACT,AG-GT
 1213761,1214490,730,EXACT,AG-GT
 1214861,1216099,1239,EXACT,AG-GT
 1216619,1217260,642,EXACT,AG-GT
 1217604,1217652,49,EXACT,AG-GT
 1218310,1218564,255,EXACT,AG-GT
 1219118,1219147,30,EXACT,AG-GT

1219396,1219505,110,START:EXACT

>> RNA-Seq evidence = 10/10 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_040040 + 5 TTGTCGGCCATGTCTCTCTC

1239019,1239534,516,END:Starts:1239225-1238473-

1240449,1240580,132,START: end 99 AG

1241107,1241367,261,END: start 16 GT (ref:AG-GT)<< Possible error

1241784,1241846,63,EXACT,AG-GT

1242354,1242467,114,START:Starts:1242292-1242354-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_040100 - 4 GTAGCGCCAATGGAAAAAAG

1293830,1293931,102,OVER:EXACT

1294324,1294486,163,END: start -1262 AG

1294824,1294880,57,START: end 48 GT

1295447,1295847,401,OVER:Starts:1295058-1295423-

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_040210 + 7 AAAGAGCTGATGGCGGTAAA

1377430,1377469,40,END:Starts:1376852-1376866-1376870-

1377984,1378177,194,EXACT,AG-GT

1379072,1379273,202,START: end -69 AG-GT (ref:AG-GT)<< Possible error

1379379,1379447,69,EXACT,AG-GT

1380110,1380147,38,EXACT,AG-GT

1380879,1380960,82,EXACT,AG-GT

1381560,1381930,371,START:Ends:1382528-1383474-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_040230 + 9 TTGACACACATGGCGGGACC

1395050,1395922,873,OVER:Starts:1393905-1392766-

1396561,1396650,90,END: start -3795 GT

1396834,1396966,133,EXACT,AG-GT

1397104,1397672,569,EXACT,AG-GT

1397827,1397967,141,EXACT,AG-GT

1398370,1398484,115,EXACT,AG-GT

1398775,1399061,287,EXACT,AG-GT

1399334,1399446,113,EXACT,AG-GT

1399966,1400068,103,START:Ends:1401054-1401069-1401098-

>> RNA-Seq evidence = 8/9 (88.9%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_040230 + 9 TTGACACACATGGCGGGACC IX G..ATGG

1393905,1394983,1079,5' UTR

1394984,1395922,939,GT,OVER:Starts:1393905-1392766-,Old start=1395050

1396561,1396650,90,INTERNAL,END: start -3795 GT

1396834,1396966,133,INTERNAL,EXACT,AG-GT

1397104,1397672,569,INTERNAL,EXACT,AG-GT

1397827,1397967,141,INTERNAL,EXACT,AG-GT

1398370,1398484,115,INTERNAL,EXACT,AG-GT

1398775,1399061,287,INTERNAL,EXACT,AG-GT

1399334,1399446,113,INTERNAL,EXACT,AG-GT

1399966,1400068,103,AG,START:Ends:1401054-1401069-1401098-,Old end=1400068

1400069,1401098,1030,3' UTR

#####

ID=NCLIV_040260 + 8 GATGCCGGTATGAGACGCGG

1415292,1417317,2026,OVER:Starts:1405533-1414563-1413865-

1418578,1419219,642,END: start -4713 GT (ref:AG-GT)<< Possible error

1419797,1419871,75,EXACT,AG-GT

1420098,1420194,97,EXACT,TAG|TGA|TAA:AG-GT

1420697,1420845,149,EXACT,AG-GT

1421298,1421403,106,EXACT,AG-GT

1421739,1421787,49,EXACT,AG-GT

1422328,1422474,147,START:Ends:1424514-1425493-

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_040300 - 7 GAGAACGCGATGCCTTCTCC

1447831,1449581,1751,END:Starts:1445554-1445576-1445712-

1449972,1450505,534,EXACT,TAG|TGA|TAA:AG-GT

1450789,1450964,176,EXACT,AG-GT

1451374,1451480,107,EXACT,AG-GT

1451913,1452192,280,START: end 745 GT

1452525,1452627,103,OVER: start -612 and end 310 GT

1453612,1453978,367

>> RNA-Seq evidence = 5/7 (71.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_040320 - 11 CTGGAGGGGATGACGGCAGA

1467792,1467906,115,END:Starts:1467151-1466983-

1468222,1468292,71,EXACT,AG-GT
1469279,1469845,567,START: end 254 GT
1470516,1470626,111
1470859,1470908,50
1471313,1471370,58
1471519,1471668,150
1472049,1472166,118
1472960,1473152,193
1473665,1473719,55,END: start -78 AG
1473875,1473961,87

>> RNA-Seq evidence = 4/11 (36.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_040370 - 14 GGAGACCAGCTGAAGAAGTC

1526516,1526614,99,END:Starts:1525298-1525294-1525314-
1526960,1527007,48,EXACT,ATG:AG-GT
1527437,1527606,170,EXACT,AG-GT
1527909,1528029,121,EXACT,AG-GT
1528309,1528392,84,EXACT,GT
1528892,1528928,37
1529209,1529282,74
1530065,1530132,68
1530577,1530671,95
1531148,1531325,178,END: start 18 AG (ref:AC-GT)<< Possible error
1531537,1531595,59,EXACT,AG-GT
1532190,1532274,85,EXACT,GT
1533414,1533559,146,END: start 83 AG (ref:AC-GT)<< Possible error
1534192,1535726,1535,START:Ends:1536743-1536691-1536753-

>> RNA-Seq evidence = 10/14 (71.4%)

>> Homology evidence = 237838626 0.0 89.9 80.66 1066 Toxoplasma gondii ME49
WD-40 repeat protein

#####

ID=NCLIV_040550 + 2 GGTACGCTCATGGCGGGCAC

1718046,1718625,580,END:Starts:1716256-1716928-1717448-

1719134,1719207,74,START:EXACT

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_040560 - 6 GCGAGCGAAATGATACGACT

1720793,1721266,474

1722227,1723261,1035

1724450,1725810,1361

1726035,1729400,3366

1729840,1729924,85

1730403,1732556,2154

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_040600 - 7 CGCCTCCCCATGGCTGCATC

1767957,1768037,81,END:Starts:1767267-1767283-1767259-

1768483,1768597,115,EXACT,AG-GT

1768881,1769012,132,EXACT,AG-GT

1769397,1769641,245,EXACT,AG-GT

1769934,1770085,152,EXACT,AG-GT

1770622,1770724,103,EXACT,AG-GT

1770942,1771148,207,START:Ends:1771869-1771816-1771884-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_040610 + 1 GGAAAGGCGATGAGTTTCCT
1775664,1783457,7794

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_040620 - 3 CGCGTGCCAATGGGGCAACA
1784624,1784869,246
1785189,1785653,465
1786122,1787273,1152

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_040640 - 10 GGTTACGTCATGTCAATTTC
1799886,1800752,867,OVER:Starts:1799093-1799027-1801261-
1801261,1801362,102,END: start -2168 AG (ref:AC-GT)<< Possible error
1801770,1801948,179,EXACT,AG-GT
1802323,1802427,105,EXACT,TAG|TGAI|TAA:AG-GT
1802746,1802785,40,EXACT,AG-GT
1803224,1803324,101,START: end -33 AG-GT
1803787,1803893,107,EXACT,AG-GT
1804296,1804350,55,EXACT,AG-GT
1804856,1806667,1812,EXACT,AG-GT
1807116,1807215,100,START:Ends:1812957-1809702-1812962-

>> RNA-Seq evidence = 9/10 (90.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_040640 - 10 GGTTACGTCATGTCAATTTC IX A..ATG

1807285,1809702,2418,5' UTR

1807116,1807284,169,GT,START:Ends:1812957-1809702-1812962-,Old end=1807215

1804856,1806667,1812,INTERNAL,EXACT,AG-GT

1804296,1804350,55,INTERNAL,EXACT,AG-GT

1803787,1803893,107,INTERNAL,EXACT,AG-GT

1803224,1803324,101,INTERNAL,START: end -33 AG-GT

1802746,1802785,40,INTERNAL,EXACT,AG-GT

1802323,1802427,105,INTERNAL,EXACT,TAG|TGA|TAA:AG-GT

1801770,1801948,179,INTERNAL,EXACT,AG-GT

1801261,1801362,102,INTERNAL,END: start -2168 AG (ref:AC-GT)<< Possible error

1799886,1800752,867,AG,OVER:Starts:1799093-1799027-1801261-,Old start=1799886

1799027,1799887,859,3' UTR

#####

ID=NCLIV_040650 + 8 CGCGCGCGTATGGGTATAAT

1809565,1809677,113

1810967,1811407,441

1811893,1812966,1074,END: start -84 GT (ref:AG-GT)<< Possible error

1813350,1814749,1400,START: end 749 AG

1815768,1815806,39

1816132,1819636,3505,END: start -329 GT (ref:AG-GT)<< Possible error

1820019,1820481,463,EXACT,AG-GT

1820881,1820985,105,START:Ends:1823014-1823175-

>> RNA-Seq evidence = 5/8 (62.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_040660 + 1 CAAGCTCCAATGGCAGCAGG
1825053,1825640,588

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_040680 - 12 GATGCTCCAATGGTAGAACG

1830634,1830687,54,OVER:Starts:1830798-1830435-1830462-

1830798,1830866,69,END: start -336 AG (ref:AC-GT)<< Possible error

1831140,1831328,189,EXACT,AG-GT

1831787,1832028,242,EXACT,AG-GT

1832720,1833497,778,EXACT,AG-GT

1834166,1834699,534,EXACT,AG-GT

1835384,1835639,256,START: end -20 GT

1836531,1836587,57,OVER: start -50 and end 10 AG

1837777,1837859,83,START: end 700 GT

1838422,1838574,153

1839002,1839280,279

1839706,1840953,1248

>> RNA-Seq evidence = 7/12 (58.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_040700 + 6 TGTTTGGACATGAGGCGATC

1870630,1870736,107

1871624,1871839,216

1872364,1872602,239

1872705,1872904,200,END: start 39 GT

1873476,1873646,171,EXACT,AG-GT

1874247,1874516,270,START:Ends:1874623-1874620-

>> RNA-Seq evidence = 3/6 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_040820 - 1 GAGCAACAGATGGAGCGTCT
1955326,1956039,714

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_040850 - 6 GCAGGTTTCGATGGGCCGTGA
1972784,1972845,62,END:Starts:1972500-1972173-1971255-
1973142,1973284,143,EXACT,AG-GT
1973813,1973962,150,EXACT,AG-GT
1974377,1974494,118,EXACT,AG-GT
1975338,1975742,405,EXACT,AG-GT
1976441,1978265,1825,START:Ends:1980106-1979985-1980488-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_041090 - 3 ACAGTCTGCATGGGCATGAT
2150833,2150994,162,END:Starts:2150335-2150219-2150090-
2151403,2151501,99,EXACT,AG-GC
2152094,2152456,363,START:Ends:2153265-2153272-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_041200 - 2 GTTCCCGAGATGAATCCTCA

2226440,2226711,272,END:Starts:2226334-2225644-

2227131,2228856,1726,START:Ends:2227840-2227259-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_041300 + 6 GTGCTTTTTATGGCGCACCA

2302573,2302711,139

2303198,2303518,321,OVER: start -179 and end 10 GT

2304277,2304358,82,EXACT,AG-GT

2305198,2305320,123,END: start 43 AG-GT (ref:AG-GT)<< Possible error

2306082,2306187,106,EXACT,AG-GT

2306560,2306619,60,START:Ends:2307455-2310576-

>> RNA-Seq evidence = 4/6 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_041320 + 18 GGCGAACAGATGGTGGCGAG

2320554,2320697,144

2320974,2321036,63

2321654,2321986,333

2322302,2322502,201

2323162,2323367,206

2323747,2323988,242

2324509,2324599,91

2324894,2324978,85

2325281,2325638,358

2326204,2326656,453

2326999,2327033,35

2327262,2327499,238

2328016,2328186,171
2328465,2328538,74
2328787,2329035,249,EXACT,AG-GT
2329359,2329418,60,EXACT,AG-GT
2329886,2329973,88,EXACT,AG-GT
2330335,2330726,392,START:Ends:2330943-2330917-

>> RNA-Seq evidence = 4/18 (22.2%)

>> Homology evidence = NONE

#####

ID=NCLIV_041350 - 2 TCTGCGGACATGTGCCTTC
2376532,2383978,7447
2384417,2387556,3140,OVER:Ends:2389013-2390381-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_041360 - 1 GTTTTTGTGATGCTTTTCAT
2388591,2388971,381,OVER:Ends:2389013-2390381-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_041420 - 7 ACCTACAACCTCGTTCCAGG
2438086,2438199,114
2438565,2438652,88
2439068,2439801,734
2440172,2440365,194
2440763,2440928,166
2442459,2443309,851

2443815,2448000,4186

>> RNA-Seq evidence = NONE

>> Homology evidence = 237838084 0.0 76.0 83.05 1175 Toxoplasma gondii ME49
serine/threonine-protein kinase

#####

ID=NCLIV_041460 + 1 GTCCACGAAATGTCGCTGGC

2473759,2477394,3636,OVER:Starts:2477793-2472901-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_041490 - 2 AGTCTTCAAATGGTGCAGAGA

2501203,2503971,2769

2504802,2504861,60

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_041620 - 16 TGCAGGGAGATGTACGCCTC

2610769,2610900,132,END:Ends:2612795-2610900-

2611527,2611718,192

2612399,2613084,686

2613553,2613876,324

2614429,2614529,101

2614961,2615141,181

2615766,2615920,155

2616444,2616508,65

2617306,2617363,58,OVER: start -108 and end 653 AG

2617786,2618016,231,END: start -588 AG

2618468,2618598,131,EXACT,AG-GT

2618969,2619065,97,EXACT,GT

2619419,2619525,107

2619881,2620113,233,EXACT,AG

2621582,2621768,187

2622244,2622462,219

>> RNA-Seq evidence = 5/16 (31.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_041690 + 15 GATTCGCAGTTCGCTTCCCC

2681114,2683006,1893,END:Starts:2679501-2679460-2682486-

2683308,2684169,862,EXACT,AG-GT

2684696,2684854,159,EXACT,AG-GT

2685110,2685213,104,START: end 5 AG

2685460,2685551,92,END: start 9 GT

2685807,2686575,769,EXACT,AG-GT

2686914,2687363,450,EXACT,AG-GT

2687582,2687819,238,EXACT,AG-GT

2688329,2688951,623,EXACT,AG-GT

2689710,2690228,519,EXACT,AG-GT

2690844,2691812,969,EXACT,AG-GT

2692277,2692348,72,EXACT,AG-GT

2692862,2692968,107,EXACT,AG-GT

2693192,2693253,62,EXACT,AG-GT

2693610,2693668,59,START:Ends:2695261-2695245-2695251-

>> RNA-Seq evidence = 15/15 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_041710 + 19 CCCTCTTCGATGGCGGAAGC

2702354,2702726,373,END:EXACT
 2703391,2703540,150,EXACT,AG-GT
 2703930,2703977,48,EXACT,AG-GT
 2704470,2704621,152,EXACT,AG-GT
 2705110,2705234,125,EXACT,AG-GT
 2705325,2705476,152,EXACT,AG-GT
 2706103,2706337,235,EXACT,AG-GT
 2706681,2706729,49,EXACT,AG-GT
 2707105,2707164,60,EXACT,Info:Stop Codon:AG-GC-AG-GT-
 2707615,2707660,46,EXACT,GT
 2707895,2707973,79,EXACT,AG-GT
 2708226,2708412,187,EXACT,AG-GT
 2708910,2709070,161,EXACT,AG-GT
 2709385,2709511,127,EXACT,AG-GT
 2709909,2710016,108,EXACT,AG-GT
 2710565,2710616,52,EXACT,AG-GT
 2711137,2711204,68,EXACT,AG-GT
 2711744,2711817,74,EXACT,AG-GT
 2712149,2712200,52,START:Ends:2712944-2712902-2712901-

>> RNA-Seq evidence = 19/19 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_041860 + 4 TGAACAGGAATGTCCACGAT

2821287,2821365,79,END:Starts:2820689-2820711-
 2821592,2821663,72,EXACT,ATG:AG-GT
 2822082,2822294,213,START: end -14 AG
 2822707,2822945,239,OVER:Starts:2822707-2822689-

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_041980 + 2 CCCCTCCCTATGGCGGTGCC

2893552,2893877,326

2893932,2894355,424

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_042030 - 14 TCTCCTTCAATGGAGAGAGG

2921226,2921307,82,END:Starts:2919808-2919998-2919757-

2921711,2921761,51,EXACT,GT

2922435,2922501,67

2922814,2922879,66

2923075,2923221,147

2923549,2923684,136

2924003,2924086,84

2924218,2924312,95

2924840,2924905,66

2925321,2925462,142

2925815,2925932,118

2926315,2926376,62

2927161,2927286,126,END: start 13 AG

2927984,2928325,342,START:Ends:2930880-2928518-

>> RNA-Seq evidence = 4/14 (28.6%)

>> Homology evidence = NONE

#####

ID=NCLIV_042050 + 1 ACAGCCGCAATGTCTCCCTC

2938440,2939138,699

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_042140 - 1 ACCTTTCCAATGGAGGCTCG

2987634,2989499,1866,OVER:EXACT

>> RNA-Seq evidence = 1/1 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_042150 - 2 GCCTTCGTCATGCGAAGAAC

2994737,2995437,701,END:Starts:2993544-2994364-2993388-

2995900,2996011,112,START:Ends:2996402-2998557-3000289-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_042150 - 2 GCCTTCGTCATGCGAAGAAC IX [CT]..ATG[ACT]

2996069,2996402,334,5' UTR

2995900,2996068,169,GT,START:Ends:2996402-2998557-3000289-,Old end=2996011

2994737,2995437,701,AG,END:Starts:2993544-2994364-2993388-,Old start=2994737

2993388,2994738,1349,3' UTR

Leaky:ID=NCLIV_042150 - 2 GCCTTCGTCATGCGAAGAAC IX CGTCATGC

2996012,2996402,391,5' UTR

2995900,2996011,112,GT,START:Ends:2996402-2998557-3000289-,Old end=2996011

2994737,2995437,701,AG,END:Starts:2993544-2994364-2993388-,Old start=2994737

2993388,2994738,1349,3' UTR

#####

ID=NCLIV_042170 - 8 ACGGAGCCGATGGGGCTGCC

3007150,3007178,29,END:Starts:3005526-3005582-3005511-
 3007628,3009521,1894,EXACT,AG-GT
 3009956,3010027,72,EXACT,AG-GT
 3010382,3011080,699,EXACT,AG-GT
 3011763,3013203,1441,EXACT,AG-GT
 3013470,3013861,392,EXACT,AG-GT
 3014164,3015651,1488,EXACT,AG-GT
 3015925,3023541,7617,START:Ends:3025096-3025072-3025153-

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_042310 + 11 CAGCCGCCAATGGAAGAAGC

3196480,3196564,85,END:Starts:3196492-3196474-
 3197527,3197654,128,EXACT,AG-GT
 3198022,3198234,213,EXACT,AG-GT
 3198684,3198779,96,EXACT,AG-GT
 3199309,3199478,170,EXACT,AG-GT
 3199749,3199826,78,EXACT,AG-GT
 3200088,3200289,202,EXACT,AG-GT
 3200563,3200646,84,EXACT,AG-GT
 3201189,3201422,234,EXACT,AG-GT
 3201540,3201596,57,EXACT,AG-GT
 3202024,3202107,84,START:Ends:3202935-3202915-3203159-

>> RNA-Seq evidence = 11/11 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_042360 - 1 CCATCCTCAATGGCTCTGAC

3227783,3228403,621

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_042380 - 7 AACCGCCACATGGAGACGGG

3237779,3237835,57,END:EXACT

3238209,3238289,81,EXACT,AG-GT

3238873,3239059,187,EXACT,AG-GT

3239575,3239664,90,START: end -10 GT

3240276,3240319,44,END: start -1 AG (ref:AC-GT)<< Possible error

3240727,3240871,145,EXACT,AG-GT

3241234,3243524,2291,START:Ends:3244041-3243452-3244045-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_042410 - 14 TTCTCCCCCATGGCGCTCAG

3254063,3254116,54,END:Starts:3253298-3251996-

3254912,3255067,156,END: start -81 AG-GT

3255573,3255733,161,EXACT,AG-GT

3255906,3256092,187,EXACT,AG-GT

3256192,3256395,204,EXACT,AG-GT

3256890,3257005,116,EXACT,AG-GT

3257307,3257411,105,EXACT,AG-GT

3257879,3258023,145,EXACT,AG-GT

3258506,3258634,129,EXACT,AG-GT

3258897,3259451,555,EXACT,AG-GT

3259888,3259986,99,EXACT,ATG:AG-GT

3260549,3260725,177,EXACT,AG-GT

3261004,3261593,590,EXACT,AG-GT

3262293,3262470,178,START:Ends:3263429-3263387-

>> RNA-Seq evidence = 14/14 (100.0%)

>> Homology evidence = 237838266 0.0 98.9 83.52 2410 Toxoplasma gondii ME49
sortilin

#####

ID=NCLIV_042430 - 1 TTCCCCTATATGGATCGGAC

3279330,3280619,1290

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_042550 + 8 CAACACGCGATGAATCCGTC

3373208,3373243,36

3373907,3374764,858

3375304,3375366,63

3375692,3375787,96

3376065,3376123,59

3376480,3376533,54,END: start 7 GT

3376891,3376955,65,EXACT,AG-GT

3377315,3377637,323,START:Ends:3377986-3379946-

>> RNA-Seq evidence = 3/8 (37.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_042580 - 1 TCCTTGGGAATGAAATCACT

3397917,3399476,1560

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_042610 - 6 TTTTGGCACATGGCGTCTGC

3413640,3415170,1531

3415950,3416214,265,END: start -353 AG-GT

3416559,3418125,1567,START: end -76 GT

3418567,3419544,978

3419847,3420269,423,END: start 119 AG

3420703,3423849,3147,START:Ends:3424881-3421441-

>> RNA-Seq evidence = 4/6 (66.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_042610 - 6 TTTTGGCACATGGCGTCTGC IX G..ATGG

3421024,3421441,418,5' UTR

3420703,3421023,321,GT,START:Ends:3424881-3421441-,Old end=3423849

3419847,3420269,423,INTERNAL,END: start 119 AG

3418567,3419544,978,INTERNAL,

3416559,3418125,1567,INTERNAL,START: end -76 GT

3415950,3416214,265,INTERNAL,END: start -353 AG-GT

3413640,3415170,1531,AG,,Old start=3413640 (+ 1000)

3412640,3413641,1000,3' UTR

#####

ID=NCLIV_042730 + 1 GCGGGCGTCATGCCGGGTCC

3543136,3545190,2055

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_042740 + 6 GACGTCCAAATGGAGGAGAC

3547861,3550175,2315,OVER:Starts:3546839-3546865-3549762-

3550444,3550815,372,EXACT,AG-GT
 3551071,3551359,289,EXACT,AG-GT
 3551601,3551748,148,EXACT,TAG|TGA|TAA:AG-GT
 3551907,3552109,203,START: end -5 AG
 3552370,3552552,183,OVER:Ends:3552895-3552981-

>> RNA-Seq evidence = 4/6 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_042770 - 4 CGCCTCGTCATGACTCTGCC
 3567688,3567960,273,END:Starts:3567102-3567291-
 3568353,3568472,120,START: end -11 GT
 3569196,3569317,122,END: start 51 AG-GT
 3569857,3569962,106,START:Ends:3570691-3570628-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_042800 + 5 TCCTTGCTGATGGCAAAGTC
 3591295,3591433,139
 3591489,3591558,70
 3591612,3591665,54
 3591733,3591808,76
 3591866,3592057,192

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_042840 - 2 AACGCCGCGATGTTTGAAG
 3641605,3642795,1191

3642893,3643543,651

>> RNA-Seq evidence = NONE

>> Homology evidence = 237838366 0.0 106.2 81.12 854 Toxoplasma gondii ME49
serine palmitoyltransferase

#####

ID=NCLIV_042860 - 4 CTCAGACATATGGCGGGGCA

3653714,3653764,51,END:Starts:3653058-3653190-3653176-

3654028,3654173,146,EXACT,AG-GT

3654844,3660015,5172,END: start -225 AG-GT

3660318,3662190,1873,START:Ends:3663164-3663166-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_042890 - 33 GCCACACGTATGGGCCGTCT

3688816,3688953,138,END:Starts:3687916-3687926-3687963-

3689329,3689438,110,EXACT,AG-GT

3690175,3690332,158,EXACT,AG-GT

3690712,3690959,248,EXACT,GT

3691232,3691441,210,EXACT,AG

3692026,3692331,306,EXACT,AG-GT

3692802,3692961,160,EXACT,GT

3693385,3693604,220,EXACT,AG-GT

3694345,3694621,277,EXACT,AG-GT

3695106,3695240,135,EXACT,AG-GT

3695666,3695803,138,EXACT,AG-GT

3696074,3696193,120,START: end -24 GT

3696479,3696608,130

3697047,3697199,153

3697729,3697832,104
3698480,3698621,142
3699188,3699457,270
3699916,3700001,86
3700139,3700303,165,START: end -17 GT
3700800,3701429,630
3701821,3701978,158
3702664,3702762,99
3703149,3703332,184
3704107,3704339,233
3704752,3704885,134
3705261,3705433,173
3706053,3706159,107
3706529,3706827,299
3707197,3707387,191
3708061,3708490,430
3708874,3709450,577
3710027,3710125,99
3710425,3710986,562

>> RNA-Seq evidence = 13/33 (39.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_042940 - 3 TTGCCTTCATGGCGGCCGC

3748989,3749222,234,END:Starts:3748520-3748452-

3749609,3749888,280,EXACT,AG

3750388,3750740,353,START:Ends:3751346-3751354-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_042950 + 14 CCCGTGGAAATGCGGGGCC

3754558,3754840,283

3755455,3755735,281

3756216,3756455,240

3757239,3757448,210,EXACT,AG-GT

3757933,3758082,150,START: end 374 AG-GC

3758841,3759371,531

3759452,3759683,232,EXACT,AG-GT

3760135,3760991,857,EXACT,AG-GT

3761556,3761636,81,EXACT,AG-GT

3762045,3762377,333,EXACT,AG-GT

3762684,3763610,927,EXACT,AG-GT

3764251,3764469,219,START: end 1239 AG-GT

3765253,3765708,456,END: start -1002 AG-GT

3765888,3766601,714,START:Ends:3767083-3767196-

>> RNA-Seq evidence = 10/14 (71.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_042990 + 7 TTTTGCGACATGTCGGTGGC

3804354,3804986,633

3805505,3805876,372

3806864,3807644,781

3808017,3808186,170

3808432,3808774,343

3809425,3809569,145

3809954,3809990,37

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_043060 + 5 GGCGAGGGTATGCGAGCCCG

3876296,3876939,644,WITHIN:Starts:3876427-3876431-3876451-

3877264,3877358,95,START: end -2 AG-GT (ref:AG-GT)<< Possible error

3877782,3877973,192,EXACT,ATG:AG-GT

3878396,3878493,98,EXACT,AG-GT

3879148,3879498,351,START:EXACT

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_043120 + 7 GATTCCTCATGGAAGACGA

3921981,3923149,1169,END:Starts:3920866-3920367-

3923619,3924717,1099,START: end 2 AG

3924939,3925622,684,END: start 651 GT

3926141,3926605,465,EXACT,GT

3927063,3927136,74,START: end -7 AG

3927668,3927853,186,END: start -174 GT (ref:AG-GT)<< Possible error

3928262,3928826,565,START:Ends:3929608-3929705-3929625-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_043130 - 1 TTGTTGCGGATGTACTGCCG

3931302,3931979,678

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_043240 + 5 AGCGTTGCGATGAGGGATGT
 4002321,4002456,136
 4002513,4002619,107
 4002674,4002748,75
 4002810,4002857,48
 4002911,4003108,198

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_043320 - 12 GCGCTTGGGATGTCCCCAAA
 4041693,4042294,602,END:Starts:4039415-4040742-4040660-
 4042759,4042824,66,EXACT,AG-GT
 4043297,4043486,190,EXACT,AG-GT
 4043775,4043826,52,EXACT,AG-GT
 4044568,4044670,103,EXACT,AG-GT
 4045134,4045233,100,EXACT,AG-GT
 4045724,4045771,48,EXACT,AG-GT
 4046213,4046310,98,EXACT,GT
 4047024,4047117,94,EXACT,AG
 4047656,4047727,72,EXACT,AG-GT
 4048052,4048153,102,EXACT,AG-GT
 4048549,4048689,141,START:Ends:4048662-4048710-

>> RNA-Seq evidence = 12/12 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_043400 + 11 CGCGGCTCTATGGCGAAGGA
 4099911,4100336,426,END:Starts:4099244-4099288-4099315-
 4100863,4101164,302,EXACT,AG-GT

4101855,4101978,124,EXACT,AG-GT
4102468,4102537,70,EXACT,AG-GT
4102911,4103020,110,EXACT,AG-GT
4103628,4103741,114,EXACT,AG-GT
4103930,4104091,162,EXACT,AG-GT
4104425,4104550,126,EXACT,AG-GT
4104756,4104848,93,START: end 152 AG
4105129,4105221,93,END: start -183 GT (ref:AG-GT)<< Possible error
4105564,4105608,45,START:Ends:4106023-4106025-4105614-

>> RNA-Seq evidence = 11/11 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_043540 - 3 CATGCCGATATGTATCCCAC

4201492,4201531,40

4202114,4202429,316

4202569,4203853,1285

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_043570 + 5 TCCTGCGCCATGTTGGTCTC

4232499,4233547,1049

4234288,4234520,233

4235007,4235104,98

4235384,4235511,128

4235964,4236168,205

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_043600 - 1 GTAGAATTCATGGCCAAAGG
4265381,4266643,1263

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_043601 - 1 TGGAGTGGGAATGAGAACAAT
4268755,4269783,1029

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_043610 - 3 TCCCGCGCCATGAGTCAGCT
4271496,4273840,2345
4274068,4274350,283
4274745,4282517,7773

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_043620 + 10 TGTTTTTCGATGGCGCCTCT
4284557,4284899,343,END:Starts:4283438-4283637-4283529-
4285139,4285275,137,EXACT,AG-GT
4285758,4286036,279,EXACT,AG-GT
4286286,4286418,133,EXACT,AG-GT
4286938,4287092,155,EXACT,AG-GT
4287698,4287822,125,EXACT,AG-GT
4287984,4288144,161,EXACT,AG-GT
4288586,4288817,232,EXACT,AG-GT

4289435,4289720,286,EXACT,AG-GT

4290482,4290652,171,START:Ends:4291545-4292938-4291674-

>> RNA-Seq evidence = 10/10 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_043630 + 1 CCGAGGGCAATGACTCCTCT

4293922,4295115,1194

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_043770 - 3 TTCTTCGCCATGTTCCCTCAA

4411819,4411907,89,END:Starts:4411755-4410060-4409857-

4412380,4412458,79,EXACT,AG-GT

4412710,4415454,2745,START:Ends:4417580-4415941-4412718-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_043930 + 16 CCCAAACCCATGGCCACCAA

4533577,4535215,1639,END:Starts:4531722-4531727-4531748-

4536444,4536680,237,EXACT,AG-GT

4536999,4537329,331,EXACT,AG-GT

4537523,4537675,153,EXACT,ATG:AG-GT

4538106,4538538,433,EXACT,ATG:AG-GT

4539134,4539487,354,EXACT,AG-GT

4539769,4540228,460,EXACT,AG-GT

4540714,4540865,152,EXACT,AG-GT

4541704,4541795,92,EXACT,ATG:AG-GT

4542041,4542941,901,EXACT,AG
 4543381,4543603,223,EXACT,AG-GT
 4543951,4544115,165,EXACT,AG-GT
 4544422,4544494,73,EXACT,AG-GT
 4544589,4544720,132,EXACT,AG-GT
 4544911,4545175,265,EXACT,AG-GT
 4545570,4545776,207,START:Ends:4546508-4546513-4546523-

>> RNA-Seq evidence = 16/16 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_043970 + 9 CCTCGCCCCATGGAGGCCAG

4582015,4583009,995,END:Starts:4581291-4581309-4581310-
 4583827,4583913,87,EXACT,AG-GT
 4584306,4584372,67,EXACT,AG-GT
 4584970,4585296,327,EXACT,AG-GT
 4585590,4585765,176,EXACT,AG-GT
 4586022,4586111,90,EXACT,AG-GT
 4586688,4586890,203,EXACT,AG-GT
 4587452,4587562,111,EXACT,AG-GT
 4588082,4588950,869,START:Ends:4589076-4589465-4589494-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_043970 + 9 CCTCGCCCCATGGAGGCCAG IX [CT]..ATG[ACT]

4581310,4581771,462,5' UTR
 4581772,4583009,1238,GT,END:Starts:4581291-4581309-4581310-,Old start=4582015
 4583827,4583913,87,INTERNAL,EXACT,AG-GT
 4584306,4584372,67,INTERNAL,EXACT,AG-GT

4584970,4585296,327,INTERNAL,EXACT,AG-GT

4585590,4585765,176,INTERNAL,EXACT,AG-GT

4586022,4586111,90,INTERNAL,EXACT,AG-GT

4586688,4586890,203,INTERNAL,EXACT,AG-GT

4587452,4587562,111,INTERNAL,EXACT,AG-GT

4588082,4588950,869,AG,START:Ends:4589076-4589465-4589494-,Old end=4588950

4588951,4589494,544,3' UTR

Leaky:ID=NCLIV_043970 + 9 CCTCGCCCATGGAGGCCAG IX CCCCATGG

4581310,4582014,705,5' UTR

4582015,4583009,995,GT,END:Starts:4581291-4581309-4581310-,Old start=4582015

4583827,4583913,87,INTERNAL,EXACT,AG-GT

4584306,4584372,67,INTERNAL,EXACT,AG-GT

4584970,4585296,327,INTERNAL,EXACT,AG-GT

4585590,4585765,176,INTERNAL,EXACT,AG-GT

4586022,4586111,90,INTERNAL,EXACT,AG-GT

4586688,4586890,203,INTERNAL,EXACT,AG-GT

4587452,4587562,111,INTERNAL,EXACT,AG-GT

4588082,4588950,869,AG,START:Ends:4589076-4589465-4589494-,Old end=4588950

4588951,4589494,544,3' UTR

#####

ID=NCLIV_044010 + 7 TGCCTCGGATGGATCGCGT

4605682,4605820,139

4605874,4605975,102

4606029,4606144,116

4606204,4606222,19

4606303,4606384,82

4606441,4606495,55

4606560,4606640,81

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_044050 - 5 TCTAAGTCAATGGTAAGTGG

4631775,4632368,594

4632604,4632654,51

4633252,4633449,198

4633803,4633904,102

4634715,4634717,3

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_044080 + 1 GCGCGACACATGGGGGACTC

4657944,4660376,2433

>> RNA-Seq evidence = NONE

>> Homology evidence = 237837026 0.0 77.8 76.38 843 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_044090 - 4 GGCTTTTGCATGGAAAGGCA

4662675,4662803,129,OVER:Starts:4659635-4659519-

4663362,4663568,207,EXACT,AG-GT

4664135,4664378,244,EXACT,GT

4664718,4665583,866,START:EXACT

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_044090 - 4 GGCTTTTGCATGGAAAGGCA IX A..ATG

4665962,4666583,622,5' UTR

4664718,4665961,1244,GT,START:EXACT,Old end=4665583 (-1000)

4664135,4664378,244,INTERNAL,EXACT,GT

4663362,4663568,207,INTERNAL,EXACT,AG-GT

4662675,4662803,129,AG,OVER:Starts:4659635-4659519-,Old start=4662675

4659519,4662676,3156,3' UTR

#####

ID=NCLIV_044100 - 5 ACGCGAGACATGCAACAACC

4669945,4670087,143

4670238,4670342,105

4670739,4670934,196

4671171,4671277,107

4671894,4672041,148

>> RNA-Seq evidence = NONE

>> Homology evidence = 237837030 0.0 66.5 85.83 660 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_044140 - 6 TGCAGCCCCATGGCCGGCAT

4693156,4694321,1166,OVER:Starts:4692889-4691538-4691531-

4694644,4695047,404,EXACT,AG-GT

4695333,4695393,61,EXACT,AG-GT

4695790,4695926,137,START: end 1 GT

4697004,4701822,4819

4702360,4702726,367

>> RNA-Seq evidence = 3/6 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_044180 + 7 GTCCATGGCATGCCGCCTCC

4744622,4744952,331

4745483,4746509,1027,END: start -193 GT (ref:AG-GT)<< Possible error
 4746810,4747042,233,END: start 7 GT
 4747321,4758446,11126,EXACT,AG-GT
 4758677,4758949,273,EXACT,AG-GT
 4759162,4759387,226,START: end 2669 AG
 4759509,4759519,11,OVER:Ends:4761979-4762056-

>> RNA-Seq evidence = 5/7 (71.4%)

>> Homology evidence = 237837052 0.0 87.0 83.19 1637 Toxoplasma gondii ME49
 formin homology 2 domain-containing protein

>> Alternative start codon

ID=NCLIV_044180 + 7 GTCCATGGCATGCCGCCTCC IX A..ATG

4743622,4743667,46,5' UTR

4743668,4744952,1285,GT,,Old start=4744622 (+ 1000)

4745483,4746509,1027,INTERNAL,END: start -193 GT (ref:AG-GT)<< Possible error

4746810,4747042,233,INTERNAL,END: start 7 GT

4747321,4758446,11126,INTERNAL,EXACT,AG-GT

4758677,4758949,273,INTERNAL,EXACT,AG-GT

4759162,4759387,226,INTERNAL,START: end 2669 AG

4759509,4759519,11,AG,OVER:Ends:4761979-4762056-,Old end=4759519

4759520,4762056,2537,3' UTR

#####

ID=NCLIV_044200 - 13 CCTCGGCGGATGGACGAGCA

4778705,4778853,149,END:Starts:4768309-4777664-4777668-

4779317,4779388,72,START: end 1 GT

4779996,4780080,85,START: end -75 GT

4780611,4780760,150

4781457,4781537,81

4782206,4782295,90

4782690,4782718,29

4783000,4783117,118,END: start -2 AG
 4783502,4783644,143,EXACT,AG-GT
 4784178,4784337,160,END: start -9 AG-GC
 4784922,4785074,153,EXACT,AG-GT
 4785628,4785975,348,START: end -118 GT
 4788040,4788324,285

>> RNA-Seq evidence = 8/13 (61.5%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_044200 - 13 CCTCGGCGGATGGACGAGCA IX [CT]..ATG[ACT]

4788766,4789324,559,5' UTR

4788040,4788765,726,GT,,Old end=4788324 (-1000)

4785628,4785975,348,INTERNAL,START: end -118 GT

4784922,4785074,153,INTERNAL,EXACT,AG-GT

4784178,4784337,160,INTERNAL,END: start -9 AG-GC

4783502,4783644,143,INTERNAL,EXACT,AG-GT

4783000,4783117,118,INTERNAL,END: start -2 AG

4782690,4782718,29,INTERNAL,

4782206,4782295,90,INTERNAL,

4781457,4781537,81,INTERNAL,

4780611,4780760,150,INTERNAL,

4779996,4780080,85,INTERNAL,START: end -75 GT

4779317,4779388,72,INTERNAL,START: end 1 GT

4778705,4778853,149,AG,END:Starts:4768309-4777664-4777668-,Old start=4778705

4768309,4778706,10396,3' UTR

Leaky:ID=NCLIV_044200 - 13 CCTCGGCGGATGGACGAGCA IX
 [CT]..ATG[ACT]

4788682,4789324,643,5' UTR

4788040,4788681,642,GT,,Old end=4788324 (-1000)

4785628,4785975,348,INTERNAL,START: end -118 GT
4784922,4785074,153,INTERNAL,EXACT,AG-GT
4784178,4784337,160,INTERNAL,END: start -9 AG-GC
4783502,4783644,143,INTERNAL,EXACT,AG-GT
4783000,4783117,118,INTERNAL,END: start -2 AG
4782690,4782718,29,INTERNAL,
4782206,4782295,90,INTERNAL,
4781457,4781537,81,INTERNAL,
4780611,4780760,150,INTERNAL,
4779996,4780080,85,INTERNAL,START: end -75 GT
4779317,4779388,72,INTERNAL,START: end 1 GT
4778705,4778853,149,AG,END:Starts:4768309-4777664-4777668-,Old start=4778705
4768309,4778706,10396,3' UTR

#####

ID=NCLIV_044210 - 11 CAAGCGGAAATGTCGCATCT

4790945,4791128,184,END:Starts:4790047-4790600-4790052-
4791349,4791437,89,START: end 3 GT
4791954,4792086,133,EXACT,AG-GT
4792755,4792930,176,EXACT,AG-GT
4793299,4793466,168,START: end -1 GT
4794101,4794300,200,END: start 1 AG (ref:AC-GT)<< Possible error
4794761,4794785,25
4795303,4795417,115,EXACT,AG-GT
4795851,4795941,91,EXACT,AG-GT
4796475,4797093,619,EXACT,AG-GT
4797728,4798021,294,START:Ends:4798941-4798685-4799368-

>> RNA-Seq evidence = 10/11 (90.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_044255 - 2 CCGGTCGAGATGAGCGCATC
 4883646,4885789,2144
 4886384,4887692,1309

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_044260 - 7 CTAGGGCCCATGGAGGAATT
 4889653,4892544,2892,END:Starts:4888902-4888894-4889113-
 4893159,4893467,309,EXACT,AG-GT
 4894062,4894364,303,EXACT,AG-GT
 4894828,4895049,222,START: end 576 GT
 4895676,4899562,3887,EXACT,AG-GT
 4899885,4901535,1651,EXACT,AG-GT
 4901913,4906517,4605,START:Ends:4904982-4903240-4904582-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_044260 - 7 CTAGGGCCCATGGAGGAATT IX A..ATG
 4903155,4903240,86,5' UTR
 4901913,4903154,1242,GT,START:Ends:4904982-4903240-4904582-,Old end=4906517
 4899885,4901535,1651,INTERNAL,EXACT,AG-GT
 4895676,4899562,3887,INTERNAL,EXACT,AG-GT
 4894828,4895049,222,INTERNAL,START: end 576 GT
 4894062,4894364,303,INTERNAL,EXACT,AG-GT
 4893159,4893467,309,INTERNAL,EXACT,AG-GT
 4889653,4892544,2892,AG,END:Starts:4888902-4888894-4889113-,Old start=4889653
 4888894,4889654,759,3' UTR

#####

ID=NCLIV_044280 - 2 GAGAGCGAGATGTTCTGTTC
4921761,4922212,452,END:EXACT
4923043,4926211,3169,START:Ends:4923469-4923289-4926877-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_044300 + 2 GAGTCCCAGATGGCGGAAAC
4946239,4946284,46,END:Starts:4945242-4945002-
4946782,4948508,1727,START:Ends:4952135-4950458-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_044320 + 1 GTAGCCGTCATGAGGCCCTC
4965904,4970676,4773

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_044410 + 3 TGTCGGGCGATGAGGGTCGG
5037637,5038358,722,END:Starts:5030791-5034631-
5038823,5038938,116,EXACT,AG
5039327,5040267,941

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_044420 + 6 GGGGCGCGAATGGACCGAAA
5043438,5043549,112

5044551,5044632,82

5044871,5044989,119

5045194,5045300,107

5045700,5045798,99

5046342,5046587,246

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_044430 - 7 CTCCTGGCCATGTCAAACCC

5047407,5047467,61,END:Starts:5046116-5046227-5045959-

5048135,5048196,62,EXACT,AG-GT

5048494,5048619,126,EXACT,AG-GT

5048924,5049131,208,START: end 1 GT

5049616,5053433,3818

5053629,5066289,12661,END: start 11821 AG

5066980,5068046,1067,START:Ends:5067363-5067059-

>> RNA-Seq evidence = 6/7 (85.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_044430 - 7 CTCCTGGCCATGTCAAACCC IX G..ATGG

5067042,5067059,18,5' UTR

5066980,5067041,62,GT,START:Ends:5067363-5067059-,Old end=5068046

5053629,5066289,12661,INTERNAL,END: start 11821 AG

5049616,5053433,3818,INTERNAL,

5048924,5049131,208,INTERNAL,START: end 1 GT

5048494,5048619,126,INTERNAL,EXACT,AG-GT

5048135,5048196,62,INTERNAL,EXACT,AG-GT

5047407,5047467,61,AG,END:Starts:5046116-5046227-5045959-,Old start=5047407

5045959,5047408,1448,3' UTR

#####

ID=NCLIV_044510 - 1 GTCCGCTTCATGGCTGCTAA

5131364,5132143,780

>> RNA-Seq evidence = NONE

>> Homology evidence = 237842184 0.0 47.6 81.70 645 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_044630 - 11 CAGGCAGTCATGCCCCCTC

5282297,5282555,259,END:Starts:5281750-5281659-

5282846,5283332,487,EXACT,AG-GT

5283745,5283913,169,EXACT,AG-GT

5284078,5284170,93,EXACT,AG-GT

5284584,5284673,90,EXACT,GT

5284943,5285209,267,EXACT,AG

5285540,5285732,193,EXACT,AG-GT

5286146,5286258,113,EXACT,AG-GT

5286497,5286794,298,EXACT,AG-GT

5286996,5287207,212,START: end 21 GT

5287721,5289274,1554

>> RNA-Seq evidence = 10/11 (90.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_044665 + 3 CAGGGCGCGATGCTCCTCGC

5322206,5323046,841,END:Starts:5319886-5321038-

5323513,5323745,233,START: end -76 AG-GT

5323949,5323972,24,OVER:Ends:5324966-5324454-

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_044680 - 2 CGTCTATCGATGGAGGGACT

5341789,5342829,1041,END:Starts:5340724-

5343328,5345634,2307,START:Ends:5347225-5344093-5347494-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_044680 - 2 CGTCTATCGATGGAGGGACT IX [CT]..ATG[ACT]

5343760,5344093,334,5' UTR

5343328,5343759,432,GT,START:Ends:5347225-5344093-5347494-,Old end=5345634

5341789,5342829,1041,AG,END:Starts:5340724-,Old start=5341789

5340724,5341790,1065,3' UTR

Leaky:ID=NCLIV_044680 - 2 CGTCTATCGATGGAGGGACT IX
GTAGATGG

5343708,5344093,386,5' UTR

5343328,5343707,380,GT,START:Ends:5347225-5344093-5347494-,Old end=5345634

5342790,5342829,40,AG,END:Starts:5340724-,Old start=5341789

5340724,5342791,2066,3' UTR

#####

ID=NCLIV_044710 + 7 AAGGCTTCCATGGTCAGGCT

5368190,5368688,499,END:Starts:5367225-5367116-5367233-

5369358,5369419,62,EXACT,AG-GT

5369839,5369947,109,EXACT,AG-GT

5370218,5370537,320,EXACT,AG-GT

5370844,5371010,167,START: end -59 ATG:AG-GT (ref:AG-GT)<< Possible error

5371121,5371277,157,END: start 61 AG-GT (ref:AG-GT)<< Possible error

5371712,5371747,36,START:Ends:5372210-5371838-5372160-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_044760 - 13 GCAGCCTTCATGGCGGGATT

5397027,5397154,128,END:Starts:5396507-5396514-

5397651,5398182,532,START: end -150 GT

5398480,5398546,67

5398665,5399270,606

5399689,5400951,1263

5401381,5401526,146

5401844,5402106,263

5402956,5403044,89

5403523,5403756,234

5404128,5404245,118

5404449,5405096,648

5405538,5405655,118

5405932,5406693,762

>> RNA-Seq evidence = 2/13 (15.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_044810 - 7 ACCGCGCCATGCCAGACGC

5436644,5437332,689,END:Starts:5436227-5436180-5436045-

5437456,5437540,85,EXACT,AG-GT

5437912,5438224,313,START: end 50 GT

5438792,5438894,103

5439248,5439317,70

5439877,5439969,93,END: start 14 AG

5440417,5440677,261,START:Ends:5441143-5441807-

>> RNA-Seq evidence = 5/7 (71.4%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_044810 - 7 ACCGCGGCCATGCCAGACGC IX A..ATG

5440792,5441143,352,5' UTR

5440417,5440791,375,GT,START:Ends:5441143-5441807-,Old end=5440677

5439877,5439969,93,INTERNAL,END: start 14 AG

5439248,5439317,70,INTERNAL,

5438792,5438894,103,INTERNAL,

5437912,5438224,313,INTERNAL,START: end 50 GT

5437456,5437540,85,INTERNAL,EXACT,AG-GT

5436644,5437332,689,AG,END:Starts:5436227-5436180-5436045-,Old start=5436644

5436045,5436645,599,3' UTR

#####

ID=NCLIV_044830 - 3 CGCGTTCTGATGGGAAACGG

5451716,5456440,4725,OVER:Starts:5450482-5467800-5450598-

5456489,5470869,14381,OVER: start -5891 and end 811 AG (ref:AC-GT)<< Possible error

5471116,5471257,142,OVER:Starts:5450482-5467800-5450598-

>> RNA-Seq evidence = NONE

>> Homology evidence = 237842260 0.0 93.4 74.41 1652 Toxoplasma gondii ME49
RNA pseudouridine synthase domain containing protein

*** **CHROMOSOME X**

#####

ID=NCLIV_044860 - 11 TCGAATCGTATGGGAGCGGG

51782,52812,1031,END:Starts:49318-49847-49276-

53201,53396,196,EXACT,AG-GT
 53675,53819,145,EXACT,AG-GT
 54150,54338,189,EXACT,AG-GT
 54552,54664,113,EXACT,AG-GT
 54960,55214,255,EXACT,AG-GT
 55578,55730,153,EXACT,AG-GT
 56032,58192,2161,EXACT,AG-GT
 58728,58885,158,EXACT,AG-GT
 59250,61216,1967,EXACT,AG-GT
 61647,61905,259,START:Ends:64407-67137-

>> RNA-Seq evidence = 11/11 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_044860 - 11 TCGAATCGTATGGGAGCGGG X G..ATGG

61930,64407,2478,5' UTR

61647,61929,283,GT,START:Ends:64407-67137-,Old end=61905

59250,61216,1967,INTERNAL,EXACT,AG-GT

58728,58885,158,INTERNAL,EXACT,AG-GT

56032,58192,2161,INTERNAL,EXACT,AG-GT

55578,55730,153,INTERNAL,EXACT,AG-GT

54960,55214,255,INTERNAL,EXACT,AG-GT

54552,54664,113,INTERNAL,EXACT,AG-GT

54150,54338,189,INTERNAL,EXACT,AG-GT

53675,53819,145,INTERNAL,EXACT,AG-GT

53201,53396,196,INTERNAL,EXACT,AG-GT

51782,52812,1031,AG,END:Starts:49318-49847-49276-,Old start=51782

49276,51783,2506,3' UTR

#####

ID=NCLIV_044900 + 19 CTCTTCTCAATGGCGAACCC

83671,84192,522,END:Starts:84170-83423-
84700,89073,4374,START: end -3621 AG
89500,90554,1055,END: start 10 GT
91048,91849,802,START: end -115 AG
92288,92836,549
93195,93377,183
94020,94182,163
94565,94875,311
95144,95464,321,END: start 79 GT
95858,104322,8465,END: start 8347 GT
104861,105842,982,EXACT,AG-GT
106190,106345,156,EXACT,AG-GT
106849,106950,102,EXACT,AG-GT
107521,107676,156,START: end -3 AG
107878,108526,649
108705,108790,86
109183,109394,212,END: start 15 GT (ref:AG-GT)<< Possible error
109920,110024,105,START: end 34 AG
110593,110728,136

>> RNA-Seq evidence = 12/19 (63.2%)

>> Homology evidence = NONE

#####

ID=NCLIV_044910 - 7 CTGTCGGAGATGCAGTCTTC

112489,112757,269

113126,113224,99

113761,114046,286

114486,114644,159

115101,115150,50

115673,115752,80

115990,116546,557

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_045110 + 15 CTAATCTCCATGGGGAGAAC

260573,261920,1348

262347,262675,329

263006,263197,192

263627,263767,141

264154,264843,690,EXACT,GT

265396,265765,370,EXACT,AG-GT

266385,267049,665,START: end -4 AG

267438,267626,189,END: start 14 GT

268360,269003,644,START: end 129 AG

269532,269892,361,END: start 12 GT

270577,270672,96,EXACT,AG-GT

270951,271847,897,EXACT,Info:AG-GT-AG-GC-acceptor=TC-

272312,272602,291,EXACT,AG-GT

272959,273051,93,EXACT,AG-GT

273672,273836,165,START:EXACT

>> RNA-Seq evidence = 11/15 (73.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_045130 - 15 CTCAGTGGATGGTGCAACC

283911,284101,191,OVER:Starts:283313-283396-283321-

284816,284904,89,EXACT,AG-GT

285651,285691,41,START: end 127 GT

286197,286240,44

286770,286913,144
287111,287694,584
288215,288347,133
289387,289504,118
289630,289803,174,END: start 1 AG
290303,290366,64,EXACT,AG-GT
290517,290586,70,START: end 220 GT
290897,292130,1234
292967,293029,63
293534,293696,163
294168,294613,446

>> RNA-Seq evidence = 5/15 (33.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_045230 - 4 GCTGCGGCGATGTTGAAGCG

373057,373486,430,END:Starts:371473-371480-371464-

373709,373769,61,EXACT,AG-GT

374052,374194,143,EXACT,AG-GT

374452,375335,884,START:Ends:377364-377163-377183-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_045270 - 3 AGCGAAGGGATGTCTTTTCT

409475,412773,3299

413298,413547,250

414040,415278,1239

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_045420 + 3 TCACCAGGGATGTCGCCGCA

561616,562237,622,END:Starts:560903-560880-560895-

562579,564249,1671,EXACT,AG-GT

564805,564812,8,OVER:EXACT

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_045420 + 3 TCACCAGGGATGTCGCCGCA X A..ATG

560903,561567,665,5' UTR

561568,562237,670,GT,END:Starts:560903-560880-560895-,Old start=561616

562579,564249,1671,INTERNAL,EXACT,AG-GT

564805,564812,8,AG,OVER:EXACT,Old end=564812 (-1000)

564813,565812,1000,3' UTR

#####

ID=NCLIV_045430 + 2 CTGACTCAGCAACTGCTGCT

567300,567587,288,END:EXACT

567869,568246,378,START:Ends:568568-568581-568585-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_045430 + 2 CTGACTCAGCAACTGCTGCT X A..ATG

566300,567248,949,5' UTR

567249,567587,339,GT,END:EXACT,Old start=567300 (+ 1000)

567869,568246,378,AG,START:Ends:568568-568581-568585-,Old end=568246

568247,568585,339,3' UTR

#####

ID=NCLIV_045520 + 1 TTTCCATCCATGGAGGGCGG
621790,624195,2406

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_045600 - 11 GCCCTCGCCATGCAAGGAGA

682431,682523,93,END:EXACT

682992,683081,90,EXACT,AG-GT

683845,683964,120,WITHIN: start 17 and end -16 AG-GT (ref:TG-CA)<< Possible error

684765,685006,242,END: start -9 AG-GT (ref:AA-TT)<< Possible error

685602,685696,95,END: start -42 AG-GC (ref:AC-GT)<< Possible error

686108,686227,120,EXACT,AG-GT

686633,686700,68,START: end 5 AG-GT (ref:AC-GT)<< Possible error

687114,687245,132,END: start 5 AG-GT (ref:AC-GT)<< Possible error

687447,687571,125,START: end -48 AG-GT

688299,688415,117,START: end -7 GT

688939,689086,148

>> RNA-Seq evidence = 9/11 (81.8%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_045600 - 11 GCCCTCGCCATGCAAGGAGA X G..ATGG

689279,690086,808,5' UTR

688939,689278,340,GT,,Old end=689086 (-1000)

688299,688415,117,INTERNAL,START: end -7 GT

687447,687571,125,INTERNAL,START: end -48 AG-GT

687114,687245,132,INTERNAL,END: start 5 AG-GT (ref:AC-GT)<< Possible error

686633,686700,68,INTERNAL,START: end 5 AG-GT (ref:AC-GT)<< Possible error

686108,686227,120,INTERNAL,EXACT,AG-GT

685602,685696,95,INTERNAL,END: start -42 AG-GC (ref:AC-GT)<< Possible error

684765,685006,242,INTERNAL,END: start -9 AG-GT (ref:AA-TT)<< Possible error

683845,683964,120,INTERNAL,WITHIN: start 17 and end -16 AG-GT (ref:TG-CA)<< Possible error

682992,683081,90,INTERNAL,EXACT,AG-GT

682431,682523,93,AG,END:EXACT,Old start=682431 (+ 1000)

681431,682432,1000,3' UTR

#####

ID=NCLIV_045730 + 6 GATTTGGAGATGACCACGGG

804110,804233,124,OVER:EXACT

804775,805404,630,EXACT,AG-GT

805977,806041,65,EXACT,AG

806483,806620,138

807206,807352,147

807851,808117,267

>> RNA-Seq evidence = 3/6 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_045790 - 10 AAGCTGGACATGCTGACCAA

839111,839343,233,END:EXACT

839899,840004,106,START: end 17 GT

840463,840867,405

841379,842455,1077

842853,843033,181

843487,844156,670

844593,845223,631

845899,846018,120

846431,846529,99

847169,847432,264

>> RNA-Seq evidence = 2/10 (20.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_045820 - 1 AAGGATCAGATGGAGACAGC
876305,876799,495

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_045830 - 8 ATCGAAGAAATGACCAGAAG
879275,880577,1303
881011,881184,174
881727,881945,219
883308,883348,41
883875,883997,123
884345,884443,99
884811,885456,646
885859,885998,140

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_045850 + 1 TCGCCGTCAATGGACTCAAT
893717,900226,6510

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_045910 - 7 CGCGCTCCCATGGCGCCTCC
927245,927305,61,END:Starts:925765-922669-

927890,928171,282,EXACT,AG-GT

928626,929013,388,EXACT,AG-GT

929485,929605,121,EXACT,GT

929727,929864,138

930668,931326,659

932172,933591,1420

>> RNA-Seq evidence = 4/7 (57.1%)

>> Homology evidence = NONE

#####

ID=NCLIV_045920 + 5 TTGAGAGAAATGCGGACGGG

936207,937526,1320,END:Starts:934561-937116-

938190,938234,45,EXACT,AG-GT

938665,938790,126,EXACT,AG

939557,939586,30

940055,940177,123

>> RNA-Seq evidence = 3/5 (60.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_045920 + 5 TTGAGAGAAATGCGGACGGG X [CT]..ATG[ACT]

937116,937358,243,5' UTR

937359,937526,168,GT,END:Starts:934561-937116-,Old start=936207

938190,938234,45,INTERNAL,EXACT,AG-GT

938665,938790,126,INTERNAL,EXACT,AG

939557,939586,30,INTERNAL,

940055,940177,123,AG,,Old end=940177 (-1000)

940178,941177,1000,3' UTR

Leaky:ID=NCLIV_045920 + 5 TTGAGAGAAATGCGGACGGG X
AGAGATGA

937116,937472,357,5' UTR
 937473,937526,54,GT,END:Starts:934561-937116-,Old start=936207
 938190,938234,45,INTERNAL,EXACT,AG-GT
 938665,938790,126,INTERNAL,EXACT,AG
 939557,939586,30,INTERNAL,
 940055,940177,123,AG,,Old end=940177 (-1000)
 940178,941177,1000,3' UTR

#####

ID=NCLIV_045940 - 9 CGTTAGGTGATGAAGTTCGG

945679,945842,164
 946232,946319,88
 946839,946952,114
 947695,947885,191
 948198,948311,114
 948980,949165,186
 949628,949813,186
 950286,950472,187
 950998,951198,201

>> RNA-Seq evidence = NONE

>> Homology evidence = 237834128 0.0 99.8 83.79 1354 Toxoplasma gondii ME49
 aspartate kinase

#####

ID=NCLIV_045970 - 1 AAACGCGGCATGCCGCAACG

972638,974656,2019

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_046000 + 1 CACTCTGCCATGCTTGCAAT

990213,991601,1389,OVER:Ends:992564-991398-992425-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_046120 + 2 TGAGGCCCTATGGCGCCTCC

1100021,1104389,4369

1104716,1106598,1883

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_046130 - 12 CTCGACGCCATGCCGAGAGA

1110870,1110898,29,END:Starts:1109818-1109729-1109759-

1111168,1111235,68,EXACT,AG-GT

1111778,1111840,63,EXACT,AG-GT

1112258,1112325,68,EXACT,AG-GT

1112802,1112963,162,EXACT,AG-GT

1113381,1113455,75,EXACT,AG-GT

1113991,1114209,219,EXACT,AG-GT

1114726,1114998,273,EXACT,AG-GT

1115989,1116116,128

1116996,1117056,61

1117374,1117514,141

1118240,1118338,99

>> RNA-Seq evidence = 8/12 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_046160 + 9 AAAGGCGACATGCAACGGAA

1135378,1135427,50,END:Starts:1134461-1134454-1134571-

1135871,1136667,797,EXACT,AG-GT

1137040,1137115,76,EXACT,AG-GT

1137621,1137727,107,EXACT,AG-GT

1138195,1138534,340,EXACT,AG-GT

1139207,1139321,115,EXACT,AG-GT

1139759,1139930,172,EXACT,AG-GT

1140283,1140494,212,EXACT,AG-GT

1140654,1141061,408,START:Ends:1141354-1141342-1141350-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_046160 + 9 AAAGGCGACATGCAACGGAA X A..ATG

1134571,1135263,693,5' UTR

1135264,1135427,164,GT,END:Starts:1134461-1134454-1134571-,Old start=1135378

1135871,1136667,797,INTERNAL,EXACT,AG-GT

1137040,1137115,76,INTERNAL,EXACT,AG-GT

1137621,1137727,107,INTERNAL,EXACT,AG-GT

1138195,1138534,340,INTERNAL,EXACT,AG-GT

1139207,1139321,115,INTERNAL,EXACT,AG-GT

1139759,1139930,172,INTERNAL,EXACT,AG-GT

1140283,1140494,212,INTERNAL,EXACT,AG-GT

1140654,1141061,408,AG,START:Ends:1141354-1141342-1141350-,Old end=1141061

1141062,1141354,293,3' UTR

#####

ID=NCLIV_046220 + 1 GGGGAAGGAATGTCCGTGCA

1197238,1201230,3993,OVER:Ends:1202547-1202778-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_046330 - 1 AACGGCGAGATGAAGGCGAA
1279999,1281141,1143

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_046370 - 8 GCTTTTCAGATGGATTCTAA
1328348,1328551,204
1329300,1329503,204
1329999,1330273,275
1331009,1331165,157
1331766,1331835,70
1332620,1332774,155
1333702,1334112,411
1334725,1334874,150

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_046425 + 3 GCGCAGGAGATGATCGCGAG
1367098,1367813,716,END:Starts:1366765-1366725-
1368010,1368094,85,EXACT,AG-GT
1368327,1368380,54,START:Ends:1370250-1370227-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_046425 + 3 GCGCAGGAGATGATCGCGAG X A..ATG

1366765,1367004,240,5' UTR

1367005,1367813,809,GT,END:Starts:1366765-1366725-,Old start=1367098

1368010,1368094,85,INTERNAL,EXACT,AG-GT

1368327,1368380,54,AG,START:Ends:1370250-1370227-,Old end=1368380

1368381,1370250,1870,3' UTR

#####

ID=NCLIV_046490 + 2 CTACATGGAATGAACTCTCC

1431902,1441399,9498,END:Starts:1430399-1430388-

1441951,1442061,111,START:Ends:1442232-1442286-1442228-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_046490 + 2 CTACATGGAATGAACTCTCC X A..ATG

1430399,1431544,1146,5' UTR

1431545,1441399,9855,GT,END:Starts:1430399-1430388-,Old start=1431902

1441951,1442061,111,AG,START:Ends:1442232-1442286-1442228-,Old end=1442061

1442062,1442286,225,3' UTR

#####

ID=NCLIV_046540 + 11 CAAAGTGTCATGCTTTTCCT

1470507,1470524,18

1470796,1470850,55,EXACT,TAG|TGA|TAA:AG-GT

1471393,1471693,301,EXACT,AG-GT

1472178,1472516,339,EXACT,AG-GT

1472828,1472924,97,EXACT,AG-GT

1473165,1473314,150,EXACT,AG-GT

1473736,1474021,286,EXACT,AG-GT

1474278,1474498,221,EXACT,AG-GT

1474914,1474990,77,EXACT,AG-GT

1475609,1475904,296,EXACT,AG-GT

1476300,1476352,53,START:Ends:1478012-1477873-1479592-

>> RNA-Seq evidence = 10/11 (90.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_046650 - 2 CGGTGCTGCATGGAAAGTAT

1559014,1559591,578

1560226,1560727,502,OVER:Ends:1565138-1561399-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_046690 + 3 TTGCACCCAATGGACCCGCA

1580801,1581973,1173,END:Starts:1579595-1579700-1579835-

1582441,1582518,78

1582578,1583636,1059,START:Ends:1584379-1584418-1584404-

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = 237833960 0.0 64.7 78.18 701 Toxoplasma gondii ME49
ATP-dependent RNA helicase

#####

ID=NCLIV_046730 + 11 GTTGTCGGAATGACATGCAT

1610094,1611224,1131

1611569,1611693,125

1612318,1612423,106

1612881,1613174,294

1613841,1613887,47

1614463,1614655,193

1615247,1615381,135

1615820,1616857,1038

1617276,1618451,1176

1619265,1619857,593

1620848,1621040,193

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_046740 - 9 TGAAGAGCCATGTGGGCTTT

1622551,1622662,112

1623009,1623241,233

1623780,1623848,69

1624398,1624633,236

1625508,1625677,170

1625802,1625911,110

1627341,1627735,395

1628259,1629038,780

1629850,1629988,139

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_046770 + 7 TCGCCGCAGATGGAAGGCAG

1652736,1652913,178,END:Starts:1651972-1651963-

1653335,1653666,332,EXACT,AG-GT

1654351,1654560,210,START: end -25 AG

1655413,1655475,63,END: start -3 GT (ref:AG-GT)<< Possible error

1656138,1657027,890,EXACT,AG-GT

1657366,1657465,100,EXACT,AG-GT

1658153,1658233,81,START:Ends:1660333-1658685-1661691-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_046770 + 7 TCGCCGCAGATGGAAGGCAG X A..ATG

1651972,1652567,596,5' UTR

1652568,1652913,346,GT,END:Starts:1651972-1651963-,Old start=1652736

1653335,1653666,332,INTERNAL,EXACT,AG-GT

1654351,1654560,210,INTERNAL,START: end -25 AG

1655413,1655475,63,INTERNAL,END: start -3 GT (ref:AG-GT)<< Possible error

1656138,1657027,890,INTERNAL,EXACT,AG-GT

1657366,1657465,100,INTERNAL,EXACT,AG-GT

1658153,1658233,81,AG,START:Ends:1660333-1658685-1661691-,Old end=1658233

1658234,1661691,3458,3' UTR

#####

ID=NCLIV_046820 + 2 AACCCGCCCATGGCACCCT

1685482,1685613,132,END:Starts:1685074-1685234-1685257-

1685881,1686063,183,START:Ends:1686300-1686335-1686369-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_046910 - 3 GCTCCGCTGATGGATTCTGC

1745844,1746235,392,END:EXACT

1746919,1748176,1258,START: end 1900 AG-GT

1748500,1749948,1449,OVER:EXACT

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_047000 + 1 TTTCTCGAGATGCCGCACAG

1832032,1834953,2922

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_047010 - 1 TTTTCCTTGATGGAACGCCA

1837455,1838954,1500

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_047020 + 7 GTAAGTGCCATGTGCCGCAA

1841246,1841323,78

1841679,1841887,209,EXACT,AG-GT

1842065,1842181,117,EXACT,AG-GT

1842503,1842552,50,EXACT,AG-GT

1843031,1843130,100,EXACT,AG-GT

1843813,1843873,61,EXACT,AG-GT

1844302,1844412,111,START:Ends:1845936-1844907-

>> RNA-Seq evidence = 6/7 (85.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_047100 - 4 TCCTCCGAGATGTTCCGTT

1926017,1926111,95,END:Starts:1925111-1924514-1924963-

1926714,1926786,73,EXACT,AG-GT

1927116,1927294,179,EXACT,AG-GT

1927917,1928289,373,START:EXACT

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_047220 + 5 TCTCCAGAGATGCCACTCAA

2020991,2021744,754,END:Starts:2019195-2019381-2020212-

2022280,2022761,482,EXACT,AG-GT

2023136,2023433,298,EXACT,Info:TAG|TGA|TAA:AG-GT-donor=CT-AG-GT-

2023726,2024101,376,END: start -157 AG-GT (ref:AG-GT)<< Possible error

2024486,2024726,241,START:Ends:2026186-2026152-2026154-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_047230 - 5 GCTCATGGGATGTCTCGTTC

2027617,2027634,18,OVER:Starts:2027256-2027217-2027211-

2027748,2028262,515,END: start -531 AG (ref:AC-GT)<< Possible error

2028625,2028745,121,EXACT,AG-GT

2029183,2029427,245,START: end -28 GT

2030037,2030595,559

>> RNA-Seq evidence = 3/5 (60.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_047230 - 5 GCTCATGGGATGTCTCGTTC X G..ATGG

2031505,2031595,91,5' UTR

2030037,2031504,1468,GT,,Old end=2030595 (-1000)

2029183,2029427,245,INTERNAL,START: end -28 GT

2028625,2028745,121,INTERNAL,EXACT,AG-GT

2027748,2028262,515,INTERNAL,END: start -531 AG (ref:AC-GT)<< Possible error

2027617,2027634,18,AG,OVER:Starts:2027256-2027217-2027211-,Old start=2027617

2027211,2027618,406,3' UTR

#####

ID=NCLIV_047310 + 3 GATGCCCTCATGGCTCGCAT

2073329,2073709,381,END:Starts:2072617-2072679-

2074146,2074240,95,END: start 43 GT

2074569,2074731,163,START:Ends:2075385-2075426-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_047320 - 5 AACATCTAAATGGCTTCCCG

2075908,2076666,759

2077133,2078437,1305

2078755,2078891,137

2079419,2079709,291

2080307,2080454,148

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_047380 + 5 GGAGTTCCAATGGCAAGCTT

2118042,2119122,1081,END:Starts:2117606-2115072-2117755-

2119602,2119735,134,EXACT,AG-GT

2120031,2120151,121,START: end 652 AG-GT

2120665,2120803,139,END: start -201 AG-GT

2120943,2121327,385,START:Ends:2121136-2121978-2121781-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_047380 + 5 GGAGTTCCAATGGCAAGCTT X [CT]..ATG[ACT]

2117755,2118026,272,5' UTR

2118027,2119122,1096,GT,END:Starts:2117606-2115072-2117755-,Old start=2118042

2119602,2119735,134,INTERNAL,EXACT,AG-GT

2120031,2120151,121,INTERNAL,START: end 652 AG-GT

2120665,2120803,139,INTERNAL,END: start -201 AG-GT

2120943,2121327,385,AG,START:Ends:2121136-2121978-2121781-,Old end=2121327

2121328,2121978,651,3' UTR

Leaky:ID=NCLIV_047380 + 5 GGAGTTCCAATGGCAAGCTT X TCCAATGG

2117755,2118041,287,5' UTR

2118042,2119122,1081,GT,END:Starts:2117606-2115072-2117755-,Old start=2118042

2119602,2119735,134,INTERNAL,EXACT,AG-GT

2120031,2120151,121,INTERNAL,START: end 652 AG-GT

2120665,2120803,139,INTERNAL,END: start -201 AG-GT

2120943,2121327,385,AG,START:Ends:2121136-2121978-2121781-,Old end=2121327

2121328,2121978,651,3' UTR

#####

ID=NCLIV_047390 + 5 TCTGGCCCCATGGCTGTCTT

2124380,2124917,538,END:Starts:2122705-2123193-2123287-

2125097,2125224,128,EXACT,AG-GT

2125321,2125447,127,EXACT,AG-GT

2125685,2125931,247,EXACT,AG-GT

2126029,2126497,469,START:Ends:2126774-2127898-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = 237833814 0.0 55.2 79.01 911 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_047440 + 12 CTCGCCGTGATGTCGTCTCT

2173113,2174102,990,END:Starts:2172006-2172124-

2174293,2174386,94,EXACT,AG-GT

2174637,2174808,172,EXACT,AG-GT
 2175319,2175658,340,EXACT,AG-GT
 2176264,2176983,720,EXACT,AG-GT
 2177302,2177567,266,EXACT,AG-GT
 2178043,2178679,637,EXACT,AG-GT
 2178966,2179241,276,EXACT,AG-GT
 2179441,2179941,501,EXACT,AG-GT
 2180246,2181677,1432,EXACT,AG-GT
 2181845,2182006,162,EXACT,AG-GT
 2182490,2182605,116,START:Ends:2182944-2182918-2182919-

>> RNA-Seq evidence = 12/12 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_047470 - 2 GTGCCACGGATGGCGTCTTG

2196444,2196940,497,END:Starts:2193930-2194259-2193996-

2197150,2198965,1816,START:EXACT

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_047470 - 2 GTGCCACGGATGGCGTCTTG X [CT]..ATG[ACT]

2199350,2199965,616,5' UTR

2197150,2199349,2200,GT,START:EXACT,Old end=2198965 (-1000)

2196444,2196940,497,AG,END:Starts:2193930-2194259-2193996-,Old start=2196444

2193930,2196445,2514,3' UTR

Leaky:ID=NCLIV_047470 - 2 GTGCCACGGATGGCGTCTTG X
 ACGGATGG

2198966,2199965,1000,5' UTR

2197150,2198965,1816,GT,START:EXACT,Old end=2198965 (-1000)

2196444,2196940,497,AG,END:Starts:2193930-2194259-2193996-,Old start=2196444

2193930,2196445,2514,3' UTR

#####

ID=NCLIV_047560 + 12 CGCGGCTCCATGGCGCAGAC

2271596,2273904,2309,END:Starts:2270898-2272467-2273430-

2274334,2274976,643,EXACT,AG-GT

2275468,2275887,420,EXACT,AG-GT

2276076,2276328,253,EXACT,AG-GT

2276707,2279636,2930,EXACT,AG-GT

2280073,2280573,501,EXACT,AG

2281308,2282516,1209

2283153,2283343,191

2283908,2284078,171

2284633,2284762,130

2285246,2285406,161

2286138,2286447,310

>> RNA-Seq evidence = 6/12 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_047760 + 6 ACAGGGGCCATGCTGCGACG

2452502,2453084,583

2453649,2453905,257

2455631,2455870,240

2456176,2456287,112

2456802,2456887,86

2457178,2457360,183

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_047770 + 5 TCTCCCCAGGCGTCTTCGCA

2463344,2464105,762

2464712,2464912,201

2465252,2465344,93

2465936,2466207,272

2467156,2467477,322

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_047780 - 9 GAAAGGGGAATGAAGAGAGA

2469417,2469530,114

2470135,2470278,144

2470845,2470916,72

2471952,2472081,130

2472835,2472904,70

2474356,2474793,438,END: start -678 AG (ref:AC-GT)<< Possible error

2475231,2476782,1552,START: end -16 GT

2477350,2479330,1981,OVER: start -4 and end 862 NONE

2479883,2480022,140,OVER:Starts:2477355-2477346-

>> RNA-Seq evidence = 2/9 (22.2%)

>> Homology evidence = NONE

#####

ID=NCLIV_047800 + 5 GCCTCCTTCATGGTCCCCCG

2493792,2494256,465,END:Starts:2493038-2493107-2493085-

2494544,2494636,93,EXACT,AG-GT

2494969,2495067,99,START: end 249 AG

2495849,2495881,33

2495951,2496013,63

>> RNA-Seq evidence = 3/5 (60.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_047800 + 5 GCCTCCTTCATGGTCCCCCG X [CT]..ATG[ACT]

2493107,2493473,367,5' UTR

2493474,2494256,783,GT,END:Starts:2493038-2493107-2493085-,Old start=2493792

2494544,2494636,93,INTERNAL,EXACT,AG-GT

2494969,2495067,99,INTERNAL,START: end 249 AG

2495849,2495881,33,INTERNAL,

2495951,2496013,63,AG,,Old end=2496013 (-1000)

2496014,2497013,1000,3' UTR

Leaky:ID=NCLIV_047800 + 5 GCCTCCTTCATGGTCCCCCG X CTTCATGG

2493107,2493791,685,5' UTR

2493792,2494256,465,GT,END:Starts:2493038-2493107-2493085-,Old start=2493792

2494544,2494636,93,INTERNAL,EXACT,AG-GT

2494969,2495067,99,INTERNAL,START: end 249 AG

2495849,2495881,33,INTERNAL,

2495951,2496013,63,AG,,Old end=2496013 (-1000)

2496014,2497013,1000,3' UTR

#####

ID=NCLIV_047870 + 18 GTCTCTCCAATGGAGGGGAC

2589635,2590393,759,END:Starts:2587839-2587909-2589290-

2591071,2591377,307,EXACT,AG-GT

2591764,2592043,280,EXACT,AG-GT

2592417,2592516,100,EXACT,AG-GT

2592977,2593081,105,EXACT,AG-GT

2593503,2593591,89,EXACT,AG-GT

2593789,2593849,61,EXACT,AG-GT

2594251,2594494,244,EXACT,AG-GT
 2594906,2595269,364,EXACT,AG-GT
 2595434,2595539,106,EXACT,AG-GT
 2595951,2596058,108,EXACT,AG-GT
 2596468,2596554,87,EXACT,AG-GT
 2597109,2597161,53,EXACT,AG-GT
 2597783,2597825,43,EXACT,AG-GT
 2598970,2599103,134,EXACT,AG-GT
 2599459,2600249,791,EXACT,AG-GT
 2600814,2600904,91,EXACT,AG-GT
 2601402,2601504,103,START:Ends:2603003-2602779-2609337-

>> RNA-Seq evidence = 18/18 (100.0%)

>> Homology evidence = 237833720 0.0 96.2 81.31 2156 Toxoplasma gondii ME49
 cAMP phosphodiesterase

#####

ID=NCLIV_047900 - 3 CGAGGGGCAATGCGCGAACA

2613486,2613937,452

2614617,2616869,2253

2617411,2617429,19

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_047970 + 2 C GACTGGAAATGTTGTGGAC

2645393,2645994,602,END:Starts:2645235-2645372-2645538-

2646455,2647190,736,START:Ends:2646517-2649585-2649427-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_047990 - 22 TTCTCTCCCATGGCGCTTCC

2653267,2653656,390,END:Starts:2652796-2652836-2652881-

2653987,2654682,696,EXACT,AG-GT

2655324,2655656,333,START: end -303 GT

2656468,2657643,1176

2658299,2658445,147

2658871,2659168,298

2659705,2659877,173

2660420,2660575,156

2661134,2661385,252

2662289,2664659,2371

2664951,2665241,291

2665765,2668358,2594,WITHIN: start 626 and end -1947 NONE

2668497,2668761,265

2669032,2670186,1155

2670534,2670824,291

2671792,2672195,404

2672839,2679523,6685

2680472,2681760,1289

2682031,2684008,1978

2684513,2688224,3712

2688656,2689103,448

2689708,2690268,561

>> RNA-Seq evidence = 3/22 (13.6%)

>> Homology evidence = NONE

#####

ID=NCLIV_048040 - 1 GATACCGAGATGAACTGGCC

2722307,2723785,1479,OVER:Starts:2721249-2721442-2721186-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_048060 + 1 AGAACACCTATGGACAGCCA
2734044,2735393,1350,OVER:Starts:2732843-2731726-

>> RNA-Seq evidence = NONE

>> Homology evidence = 237838822 0.0 49.8 82.62 1171 Toxoplasma gondii ME49
roptery protein

#####

ID=NCLIV_048070 - 8 CTCCATGGAATGAAGCGGCA
2740482,2740592,111,OVER:Starts:2739989-2739963-2739964-
2741302,2741437,136,EXACT,AG-GT
2741658,2741729,72,EXACT,AG-GT
2741935,2742039,105,EXACT,AG-GT
2742389,2742457,69,EXACT,AG-GT
2742832,2743092,261,EXACT,AG-GT
2743577,2743660,84,EXACT,AG-GT
2744072,2745558,1487,START:Ends:2746553-2746357-

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_048130 + 11 GTCGGCGCAATGTTTCGCTA
2791016,2791907,892,END:Starts:2789948-2789928-2790926-
2792500,2792837,338,EXACT,AG-GT
2793320,2793416,97,EXACT,AG-GT
2794114,2794382,269,EXACT,AG-GT
2795044,2795236,193,EXACT,AG-GT

2795797,2795949,153,START: end 559 AG-GT

2796732,2796801,70,END: start -208 AG-GT (ref:AG-GT)<< Possible error

2796974,2797082,109,EXACT,AG-GT

2797860,2797949,90,EXACT,AG-GT

2798215,2798384,170,EXACT,AG-GT

2798583,2798703,121,START:Ends:2799722-2799260-2800901-

>> RNA-Seq evidence = 11/11 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_048150 + 4 GGTTTTCCCATGGATGGCAT

2808764,2809698,935

2810118,2810532,415

2811113,2811353,241,END: start 81 GT

2811729,2811844,116

>> RNA-Seq evidence = 1/4 (25.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_048290 - 3 CGAAAGCAGATGGCTGACGC

2949664,2952696,3033,END:Starts:2948922-2948939-2948911-

2953071,2955656,2586,EXACT,AG-GT

2956133,2961577,5445,START:Ends:2960776-2956471-2960824-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_048310 + 9 CAGACAGCGATGTTTTACG

2997119,2997988,870,END:Starts:2994899-2995352-2997159-

2998407,2998526,120,EXACT,AG-GT

2998748,3000002,1255,EXACT,AG-GT
3000515,3000636,122,EXACT,AG-GT
3001138,3001240,103,EXACT,AG-GT
3001536,3001642,107,EXACT,AG-GT
3001768,3001847,80,EXACT,TAG|TGA|TAA:AG-GT
3002265,3002503,239,EXACT,AG-GT
3002847,3003313,467,START:Ends:3004484-3004337-3004485-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_048340 - 14 CCTGTCGAAATGTCGCGCGT

3035676,3035794,119,END:Starts:3034883-3034847-

3036054,3036696,643,START: end -1 GT

3037260,3037394,135

3037544,3037772,229

3038470,3038543,74

3039224,3039313,90

3039633,3039965,333

3040237,3040458,222

3040801,3040905,105

3041229,3041564,336

3041837,3042396,560

3042910,3043303,394

3044124,3044419,296

3045626,3045758,133

>> RNA-Seq evidence = 2/14 (14.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_048390 + 1 CTCTTCTCCATGGAGTCTCT
3101528,3105379,3852

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_048480 + 3 GGGCGTCCGATGGCAGCGCG
3168504,3168893,390
3169568,3169696,129
3169744,3170634,891

>> RNA-Seq evidence = NONE

>> Homology evidence = 237833584 0.0 116.9 82.29 765 Toxoplasma gondii ME49 IQ
calmodulin-binding motif domain-containing protein

#####

ID=NCLIV_048630 + 11 ATCTCCGCCATGCACAGACT
3310154,3310811,658,END:Starts:3307889-3307912-3310054-
3311495,3311645,151,EXACT,AG-GT
3312286,3312296,11
3312731,3312849,119,END: start 51 AG-GT (ref:AG-GT)<< Possible error
3313223,3313344,122,EXACT,AG-GT
3313593,3313659,67,EXACT,AG-GT
3314197,3314306,110,EXACT,AG-GT
3314715,3314778,64,EXACT,AG-GT
3315276,3315355,80,EXACT,AG-GT
3315819,3316649,831,START: end 1006 AG
3317102,3317159,58,OVER:Ends:3317650-3317655-3317739-

>> RNA-Seq evidence = 9/11 (81.8%)

>> Homology evidence = NONE

#####

ID=NCLIV_048640 - 4 TCTGCAGCCATGAAACGCTC

3320243,3320314,72,END:EXACT

3320589,3320719,131,START: end -33 AG-GT (ref:AC-GT)<< Possible error

3321370,3321472,103,START: end 169 GT

3322113,3322433,321

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_048640 - 4 TCTGCAGCCATGAAACGCTC X [CT]..ATG[ACT]

3322626,3323433,808,5' UTR

3322113,3322625,513,GT,,Old end=3322433 (-1000)

3321370,3321472,103,INTERNAL,START: end 169 GT

3320589,3320719,131,INTERNAL,START: end -33 AG-GT (ref:AC-GT)<< Possible error

3320243,3320314,72,AG,END:EXACT,Old start=3320243 (+ 1000)

3319243,3320244,1000,3' UTR

Leaky:ID=NCLIV_048640 - 4 TCTGCAGCCATGAAACGCTC X A..ATG

3322596,3323433,838,5' UTR

3322113,3322595,483,GT,,Old end=3322433 (-1000)

3321370,3321472,103,INTERNAL,START: end 169 GT

3320589,3320719,131,INTERNAL,START: end -33 AG-GT (ref:AC-GT)<< Possible error

3320243,3320314,72,AG,END:EXACT,Old start=3320243 (+ 1000)

3319243,3320244,1000,3' UTR

#####

ID=NCLIV_048660 + 1 TTAGACCACATGGCGTCTCC

3329224,3331389,2166

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_048760 - 3 GAAACCGAGATGACGCTTTT

3412787,3417443,4657

3417957,3420237,2281

3420902,3423752,2851

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_048860 - 3 CTCGGTTCAATGGACTGG

3487102,3488253,1152,END:EXACT

3488774,3491144,2371,EXACT,AG-GT

3491837,3492150,314,START:Ends:3493374-3493351-3493373-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_048910 + 1 CTCGGCCAGATGGACCAGCT

3523470,3524420,951

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_048920 + 1 TCGTTACCAATGGACTGTAC

3527180,3528532,1353

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_049020 - 2 TCTCGACAAATGGGTAAGGC

3619708,3620210,503,END:Starts:3618617-3618625-3618551-

3620541,3621051,511,START:Ends:3621748-3621745-3621733-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_049070 - 10 ACACATTTTCATGGCAATCAA

3661501,3661602,102

3662207,3662469,263

3663074,3663355,282

3663762,3663828,67

3664340,3664487,148

3665325,3665392,68

3665739,3665876,138

3666673,3666777,105,END: start -2 AG

3666999,3667209,211,START: end 79 GT

3667861,3668426,566

>> RNA-Seq evidence = 2/10 (20.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_049290 - 3 AAACGAGCCATGAAAGACTA

3851343,3851893,551

3852394,3852493,100

3853675,3854028,354

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_049380 - 1 CTACCGGTGATGCTCGAAGA

3929424,3932582,3159

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_049490 - 1 CAGGAGGCCATGTGGGGTTC
4054590,4056194,1605

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_049630 - 1 CAATCGGACATGACTTGCTG
4156334,4157515,1182

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_049670 - 2 TTGTGCGCGATGAGAGGCCT
4183671,4185061,1391,END:Starts:4181900-4182687-4183751-
4185476,4186187,712,START:EXACT

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_049670 - 2 TTGTGCGCGATGAGAGGCCT X [CT]..ATG[ACT]
4186431,4187187,757,5' UTR
4185476,4186430,955,GT,START:EXACT,Old end=4186187 (-1000)
4183671,4185061,1391,AG,END:Starts:4181900-4182687-4183751-,Old start=4183671
4181900,4183672,1771,3' UTR

Leaky:ID=NCLIV_049670 - 2 TTGTGCGCGATGAGAGGCCT X A..ATG

4186401,4187187,787,5' UTR

4185476,4186400,925,GT,START:EXACT,Old end=4186187 (-1000)

4183671,4185061,1391,AG,END:Starts:4181900-4182687-4183751-,Old start=4183671

4181900,4183672,1771,3' UTR

#####

ID=NCLIV_049690 - 6 GATCGAGGAATGTACCCGGA

4198100,4198174,75

4198847,4199082,236

4199357,4199412,56

4199900,4199954,55

4200826,4200945,120

4201746,4201818,73

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_049730 + 1 CGGCTACAGATGGCGCCGCG

4241902,4243596,1695

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_049800 - 8 GCCGACGCGATGCTGGCCGG

4391121,4391242,122,END:EXACT

4391542,4391680,139,EXACT,AG-GT

4392503,4392727,225,EXACT,AG-GT

4392980,4393124,145,EXACT,AG-GT

4393619,4393700,82,START: end 3 GT

4394075,4394402,328

4395114,4395344,231,END: start -1032 AG

4395556,4395978,423,START:Ends:4396597-4398336-

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_049860 + 6 GCGCTGCCGATGGCGACGCG

4440522,4441129,608,OVER:Starts:4439710-4439716-4441367-

4442049,4442675,627,END: start -98 AG-GT

4443159,4443517,359,EXACT,TAG|TGA|TAA:AG-GT

4443736,4443878,143,END: start 36 GT

4444525,4444628,104

4444982,4445216,235

>> RNA-Seq evidence = 3/6 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_049880 + 2 ACTGGGGAAATGCAGACTGT

4466634,4466894,261

4467283,4467474,192

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_049945 + 6 TGTCGGGGGATGCGCTCCGG

4530582,4530745,164

4531410,4531934,525,END: start -16 GT

4532348,4532414,67,EXACT,AG-GT

4533108,4533194,87,END: start -18 AG

4534049,4534258,210,START: end 25 AG-GC (ref:AG-GT)<< Possible error

4535035,4535226,192,START:Ends:4536098-4535537-4536106-

>> RNA-Seq evidence = 5/6 (83.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_050070 - 2 TACTCGCAAATGGTCCTTTC
4640732,4640827,96,END:Starts:4639936-4640016-4640015-
4641006,4641320,315,START:EXACT

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_050140 + 6 TCTGTCCGCATGGACGAAAG
4675703,4676981,1279
4677727,4677887,161
4678574,4678923,350
4679339,4679643,305
4679795,4680307,513
4680898,4681352,455

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_050150 - 1 GCAAGCGGCATGCAGACACC
4683624,4684250,627

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_050160 + 1 CTCTTCGCCATGTGGCTGCG
4687525,4688013,489

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_050270 - 2 GTTGTAGACATGTCCCTTTC
4790366,4790882,517
4791605,4792101,497

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_050280 - 2 TGCTTCGTCATGATTTTCCT
4794501,4795076,576
4795838,4796431,594

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_050350 + 1 AAAGGCCTCATGGGTCTCT
4836816,4838387,1572,WITHIN:EXACT

>> RNA-Seq evidence = 1/1 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_050380 + 2 TCTGAGCAGGTGAACATTTC
4846780,4846907,128
4847412,4848366,955

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_050440 + 1 CGTTCACTCATGGACCTTTT
4888514,4891267,2754

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_050530 - 3 CTCGCCGCCATGCCTCCGAT
4964813,4965081,269,END:Starts:4962463-4964488-4962374-
4965610,4966102,493,EXACT,AG-GT
4966481,4967164,684

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_050550 + 3 CGAGTCGCAATGTCGCCGCC
4976136,4977092,957
4977558,4977689,132
4977885,4978277,393

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_050560 - 7 AACTGCGTCATGATTGTGGC
4980117,4980216,100,END:Starts:4977938-4979507-4978750-
4980531,4980673,143,EXACT,AG-GT
4981201,4982001,801,EXACT,AG-GT
4982362,4982561,200,EXACT,AG-GT
4982960,4983048,89,START: end 522 AG-GT
4983425,4983570,146,END: start -465 AG-GT

4983986,4984006,21,START:EXACT

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_050640 - 2 ATCATACAAATGGAGGAATT

5037265,5037420,156

5037911,5038078,168

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_050660 - 2 TCTCTGGAGATGAAGCGGCT

5049869,5050801,933

5051210,5051362,153,START:Ends:5051777-5051772-

>> RNA-Seq evidence = 1/2 (50.0%)

>> Homology evidence = 237839456 0.0 35.5 78.34 686 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_050690 - 5 GTGCCGGTGATGATTCTGAA

5068648,5068756,109,OVER:Starts:5065395-5065396-

5069255,5069387,133,END: start -3859 AG

5069721,5069791,71,EXACT,AG-GT

5070159,5070483,325,EXACT,AG-GT

5070857,5074418,3562,START:Ends:5076065-5073198-5074813-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_050690 - 5 GTGCCGGTGATGATTCTGAA X [CT]..ATG[ACT]

5072961,5073198,238,5' UTR

5070857,5072960,2104,GT,START:Ends:5076065-5073198-5074813-,Old end=5074418

5070159,5070483,325,INTERNAL,EXACT,AG-GT

5069721,5069791,71,INTERNAL,EXACT,AG-GT

5069255,5069387,133,INTERNAL,END: start -3859 AG

5068648,5068756,109,AG,OVER:Starts:5065395-5065396-,Old start=5068648

5065395,5068649,3253,3' UTR

Leaky:ID=NCLIV_050690 - 5 GTGCCGGTGATGATTCTGAA X
CCAGATGG

5072337,5073198,862,5' UTR

5070857,5072336,1480,GT,START:Ends:5076065-5073198-5074813-,Old end=5074418

5070159,5070483,325,INTERNAL,EXACT,AG-GT

5069721,5069791,71,INTERNAL,EXACT,AG-GT

5069255,5069387,133,INTERNAL,END: start -3859 AG

5068648,5068756,109,AG,OVER:Starts:5065395-5065396-,Old start=5068648

5065395,5068649,3253,3' UTR

#####

ID=NCLIV_050720 - 8 AGCGACGCGATGACAGGCAA

5095217,5095278,62

5095542,5095645,104

5096121,5096193,73

5096548,5096588,41

5097102,5097201,100,END: start -553 AG

5097540,5097624,85,EXACT,AG-GT

5097974,5098114,141,EXACT,AG-GT

5098285,5098383,99,START:EXACT

>> RNA-Seq evidence = 4/8 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_050730 - 8 CGACACGCCATGCCACGCGG

5103250,5103441,192,END:Starts:5102672-5102697-5102670-

5103679,5103776,98,EXACT,AG-GT

5103974,5104048,75,EXACT,AG-GT

5104675,5104809,135,EXACT,AG-GT

5105370,5105435,66,EXACT,AG-GT

5106059,5106136,78,EXACT,AG-GT

5106985,5107120,136,START: end 2194 GT

5107773,5108390,618,OVER:Ends:5107120-5109314-

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_050820 + 3 AGACAGCAAATGGCAGACAA

5160904,5161033,130

5161662,5161724,63,END: start -21 GT

5162129,5162253,125,START:Ends:5162640-5162646-

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_050840 - 1 AACTCGGCAATGTCTGACTTC

5189129,5189656,528

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_050930 - 7 TTCGTAGGGATGATCGATAT

5272484,5272642,159

5273106,5273207,102
5273554,5273689,136
5273960,5274197,238
5274750,5275540,791
5275779,5275889,111
5276652,5277829,1178

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_051030 + 7 GTCAGTCGCATGGCAGGAGT

5347804,5347908,105
5348205,5348311,107
5348969,5349153,185
5349298,5349349,52
5349550,5349664,115
5350268,5350565,298
5350779,5351602,824

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_051160 - 6 CCGAAGGCTATGTCCCAACG

5427426,5429283,1858,END:Starts:5426016-5423899-
5430009,5432578,2570,EXACT,AG
5433620,5433631,12,END: start -590 GT
5434093,5434179,87,EXACT,AG
5434861,5434921,61,EXACT,AG-GT
5436202,5436257,56,START:Ends:5437238-5437308-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_051190 - 6 TCTCTGTAGGGGGCGGACT

5465693,5466296,604

5466782,5466988,207

5467145,5467233,89

5467502,5467674,173

5468197,5468818,622

5469610,5469714,105

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_051240 + 10 AGCGCCGCCATGCCAGTGTT

5501057,5502880,1824,END:Starts:5500461-5500427-5500598-

5503395,5503481,87,EXACT,AG-GT

5504003,5504123,121,EXACT,TAGTGAITAA:AG-GT

5504648,5504752,105,EXACT,AG-GT

5505545,5505619,75,EXACT,AG-GT

5506298,5506482,185,EXACT,AG-GT

5506932,5507043,112,EXACT,AG-GT

5507672,5507797,126,EXACT,AG-GT

5508426,5508518,93,EXACT,AG-GT

5508867,5509126,260

>> RNA-Seq evidence = 9/10 (90.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_051260 - 1 TTCTCAGTTATGCCGCACGG

5525225,5528872,3648

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_051270 + 14 CGCCCCCAGATGGCAAGCGC

5531187,5531258,72,OVER:Starts:5530026-5530349-5531266-

5532348,5532502,155,END: start -1999 GT (ref:AG-GT)<< Possible error

5533182,5533425,244,EXACT,AG-GT

5534291,5534444,154,START: end 4 AG-GT

5534668,5534778,111,EXACT,AG-GT

5535321,5535431,111,END: start 43 GT

5536239,5536320,82,EXACT,AG-GT

5536979,5537130,152,EXACT,AG-GT

5537596,5537723,128,START: end 91 AG

5538239,5538309,71,END: start 13 GT (ref:AG-GT)<< Possible error

5538789,5538897,109,EXACT,AG-GT

5539459,5539689,231,EXACT,AG-GT

5540156,5540341,186,EXACT,ATG:AG-GT

5540736,5540909,174,START:Ends:5542027-5541706-5541731-

>> RNA-Seq evidence = 13/14 (92.9%)

>> Homology evidence = 237839594 0.0 100.2 82.98 1389 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_051290 - 3 GGCCGGGACATGAATCGGAA

5554742,5555289,548

5556000,5556649,650

5558124,5560123,2000

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_051340 + 1 TCCATACAGCTTCCCGCTT

5593322,5594197,876,OVER:Starts:5593064-5593069-5596832-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_051410 + 5 TCGCCTGCCATGAGCCAGT

5655409,5656046,638

5656539,5656670,132,END: start 26 GT

5657405,5657710,306,START: end -28 AG

5658193,5658318,126,EXACT,GT

5659291,5659435,145,START:Ends:5659771-5659788-

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_051440 - 11 TTTTGTCTAATGGCCGAGCT

5675626,5676753,1128,END:Starts:5675163-5675242-5675173-

5677054,5677158,105,EXACT,AG-GT

5677778,5677891,114,END: start -36 AG-GC (ref:AC-GT)<< Possible error

5678450,5678653,204,START: end 6 GT

5679085,5679469,385,END: start 13 AG

5679832,5679967,136,EXACT,AG-GT

5680685,5680918,234,START: end 7 GT

5681303,5681726,424,EXACT,AG-GT

5682169,5682799,631,EXACT,AG-GT

5683122,5683384,263,START: end -6 GT

5683916,5684593,678

>> RNA-Seq evidence = 10/11 (90.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_051450 - 8 ACAGGCGTGATGAAGGAAGC

5687637,5687783,147,END:Starts:5687566-5687482-5687543-

5688338,5688482,145,EXACT,AG-GT

5688969,5689182,214,START: end 22 GT

5689742,5690187,446

5690631,5690707,77

5690869,5690968,100

5691326,5691567,242

5692405,5692545,141

>> RNA-Seq evidence = 3/8 (37.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_051470 + 23 GGCTTCGAGATGAGCTCTCT

5699864,5700500,637,END:Starts:5699166-5699213-

5701089,5701336,248,START: end -29 AG

5701943,5702101,159,END: start 43 GT

5702541,5702675,135,EXACT,AG-GT

5703138,5703319,182,EXACT,AG-GT

5703864,5704465,602,END: start 441 GT

5705001,5705584,584,EXACT,AG-GT

5705943,5706242,300,START: end -272 AG

5706789,5706920,132

5707248,5707438,191,END: start 13 GT

5707585,5708225,641,START: end -15 AG

5708552,5709078,527
 5710239,5710304,66,EXACT,AG-GT
 5710861,5711123,263,START: end 630 AG-GT
 5711356,5711753,398,END: start -495 AG-GT
 5712393,5712786,394,EXACT,AG-GT
 5713030,5713149,120,EXACT,AG-GT
 5713638,5714898,1261,EXACT,AG
 5715271,5715378,108,START: end 382 AG
 5715530,5715760,231,END: start -26 GT
 5715923,5716102,180,EXACT,AG-GT
 5716844,5718135,1292,EXACT,AG-GT
 5718507,5718678,172,START:Ends:5718987-5718831-5720295-

>> RNA-Seq evidence = 21/23 (91.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_051490 + 2 GAAACCGGAATGTCGCGGGC
 5744215,5744297,83,END:Starts:5743878-5743880-5743927-
 5744851,5745010,160,START:Ends:5747851-5745620-5745647-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_051540 + 21 GGGATTTC AATGGAGGAGGC
 5787346,5787708,363
 5788047,5788188,142
 5789132,5789655,524
 5790379,5790602,224
 5791494,5791590,97
 5791868,5792066,199

5792779,5793601,823
 5794103,5794318,216
 5794691,5794942,252,EXACT,GT
 5795230,5795280,51,EXACT,AG-GT
 5795752,5795830,79,END: start 9 GT
 5796212,5796288,77,EXACT,AG-GT
 5796949,5797095,147,EXACT,AG-GT
 5797729,5797915,187,EXACT,AG-GT
 5798230,5798334,105,EXACT,AG-GT
 5798875,5799156,282,START: end 67 AG
 5799505,5799685,181,END: start -2 GT
 5799985,5800341,357,EXACT,ATG:AG-GT
 5800729,5802447,1719,EXACT,AG-GT
 5802789,5803307,519,EXACT,TAG|TGA|TAA:AG-GT
 5804219,5804304,86,OVER:Ends:5805351-5805414-

>> RNA-Seq evidence = 12/21 (57.1%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_051540 + 21 GGGATTTCAATGGAGGAGGC X G..ATGG

5786346,5787123,778,5' UTR
 5787124,5787708,585,GT,,Old start=5787346 (+ 1000)
 5788047,5788188,142,INTERNAL,
 5789132,5789655,524,INTERNAL,
 5790379,5790602,224,INTERNAL,
 5791494,5791590,97,INTERNAL,
 5791868,5792066,199,INTERNAL,
 5792779,5793601,823,INTERNAL,
 5794103,5794318,216,INTERNAL,
 5794691,5794942,252,INTERNAL,EXACT,GT

5795230,5795280,51,INTERNAL,EXACT,AG-GT
5795752,5795830,79,INTERNAL,END: start 9 GT
5796212,5796288,77,INTERNAL,EXACT,AG-GT
5796949,5797095,147,INTERNAL,EXACT,AG-GT
5797729,5797915,187,INTERNAL,EXACT,AG-GT
5798230,5798334,105,INTERNAL,EXACT,AG-GT
5798875,5799156,282,INTERNAL,START: end 67 AG
5799505,5799685,181,INTERNAL,END: start -2 GT
5799985,5800341,357,INTERNAL,EXACT,ATG:AG-GT
5800729,5802447,1719,INTERNAL,EXACT,AG-GT
5802789,5803307,519,INTERNAL,EXACT,TAGITGAITAA:AG-GT
5804219,5804304,86,AG,OVER:Ends:5805351-5805414-,Old end=5804304
5804305,5805414,1110,3' UTR

#####

ID=NCLIV_051550 - 2 GGAGTGGCAATGATCGGTTT
5805730,5806748,1019,END:EXACT
5807178,5808240,1063,START:Ends:5809050-5809039-5809036-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_051561 + 1 NNNNNNNNCGGGCCTCTCC
5811551,5811658,108,OVER:Ends:5812827-5811451-5813315-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_051600 - 4 TCCTTTTCTATGGTTGCTGC
5827608,5827811,204,END:Starts:5827260-5827151-
5828045,5828282,238,EXACT,AG-GT

5829149,5829854,706,EXACT,AG-GT

5830048,5831188,1141,START:Ends:5831951-5831428-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_051600 - 4 TCCTTTTCTATGGTTGCTGC X [CT]..ATG[ACT]

5831348,5831428,81,5' UTR

5830048,5831347,1300,GT,START:Ends:5831951-5831428-,Old end=5831188

5829149,5829854,706,INTERNAL,EXACT,AG-GT

5828045,5828282,238,INTERNAL,EXACT,AG-GT

5827608,5827811,204,AG,END:Starts:5827260-5827151-,Old start=5827608

5827151,5827609,457,3' UTR

Leaky:ID=NCLIV_051600 - 4 TCCTTTTCTATGGTTGCTGC X TTCTATGG

5831189,5831428,240,5' UTR

5830048,5831188,1141,GT,START:Ends:5831951-5831428-,Old end=5831188

5829149,5829854,706,INTERNAL,EXACT,AG-GT

5828045,5828282,238,INTERNAL,EXACT,AG-GT

5827608,5827811,204,AG,END:Starts:5827260-5827151-,Old start=5827608

5827151,5827609,457,3' UTR

#####

ID=NCLIV_051790 + 2 GAGACTTCTATGGATCTAAC

6003787,6007560,3774

6007627,6008715,1089

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_051800 - 12 GTTGCGGAAATGCGCGTCCC

6011018,6011181,164

6011522,6011566,45,END: start 8 AG
6011973,6012023,51,EXACT,AG-GT
6012374,6012407,34,EXACT,AG-GT
6012985,6013332,348,EXACT,AG-GT
6013838,6013897,60,EXACT,AG-GT
6014428,6014574,147,EXACT,AG-GT
6014728,6014816,89,EXACT,AG-GT
6015307,6015441,135,EXACT,AG-GT
6015679,6015737,59,EXACT,AG-GT
6016261,6016429,169,EXACT,AG-GT
6016972,6018979,2008,START:Ends:6019326-6019300-

>> RNA-Seq evidence = 11/12 (91.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_051810 + 5 CGCCTCGCCATGACGCTCTC
6022448,6022672,225,END:Starts:6021812-6021863-6022276-
6023189,6023524,336,START: end 54 AG-GC
6024040,6024141,102,EXACT,AG-GT
6024961,6025116,156,EXACT,AG-GT
6025500,6025745,246,START:Ends:6025903-6025884-6025882-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_051830 - 5 CTCAGGCGATGCTGAGGCG
6033520,6033637,118,END:Starts:6033114-6033051-
6033794,6033903,110,EXACT,AG-GT
6034322,6034428,107,START: end 65 GT
6034924,6035069,146

6035536,6035702,167

>> RNA-Seq evidence = 3/5 (60.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_051890 + 1 CTTCTTTCCATGGCGGAGGC

6077237,6083242,6006,OVER:Ends:6082683-6086406-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_052040 - 10 TTGCACGACATGACGCTCCT

6216554,6216656,103,END:Starts:6215926-6215916-6215996-

6217094,6217175,82,EXACT,AG-GT

6217475,6217531,57,START: end 3 GT

6218070,6218152,83,END: start 11 AG

6218516,6218584,69,EXACT,AG-GT

6218863,6219014,152,EXACT,AG-GT

6219619,6219736,118,EXACT,AG-GT

6220163,6220495,333,START: end -78 AG-GT (ref:AC-GT)<< Possible error

6221057,6221174,118,START: end 1040 GT

6221532,6221703,172,OVER:Ends:6222214-6222144-6223391-

>> RNA-Seq evidence = 9/10 (90.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_052060 - 13 AAGCGCTACATGGCTGCCTC

6239632,6240072,441

6240348,6240594,247

6241380,6241584,205

6242036,6242143,108

6242731,6242894,164

6243218,6244059,842

6244466,6244789,324

6245046,6245621,576

6245837,6246062,226

6246430,6246490,61

6247223,6247352,130

6248189,6248275,87

6248530,6248574,45

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_052100 + 9 TCGGCCCAATGGAGGTAAA

6277223,6277228,6

6277729,6277873,145

6278137,6278240,104

6279223,6279331,109

6279432,6279511,80

6279994,6280046,53

6280531,6280611,81

6281019,6281096,78,END: start -166 GT

6281510,6281576,67,START:Ends:6281656-6281654-

>> RNA-Seq evidence = 2/9 (22.2%)

>> Homology evidence = NONE

#####

ID=NCLIV_052220 - 35 AAGCCTGCAATGCTGGTGCT

6370268,6370398,131,END:Starts:6367414-6369426-6368208-

6371159,6371254,96,EXACT,AG-GT
6371530,6371784,255,EXACT,AG-GT
6373001,6373103,103,EXACT,AG-GT
6373363,6373507,145,EXACT,AG-GT
6373882,6374011,130,EXACT,AG-GT
6374508,6374557,50,EXACT,AG-GT
6375162,6375298,137,EXACT,AG-GT
6375939,6376100,162,EXACT,AG-GT
6376789,6377020,232,START: end -19 GT
6377654,6377748,95,END: start 4 AG (ref:AC-GT)<< Possible error
6378224,6378321,98,EXACT,AG-GT
6378568,6378975,408,EXACT,TAG|TGA|TAA:AG-GT
6379626,6380017,392,EXACT,AG-GT
6380296,6380412,117,EXACT,AG-GT
6381104,6381197,94,START: end 67 GT
6381775,6381862,88,END: start 7 AG-GC
6382196,6382327,132,EXACT,AG-GT
6382646,6382686,41,EXACT,AG-GT
6383324,6383435,112,EXACT,AG-GT
6383840,6383919,80,EXACT,AG-GT
6384300,6384459,160,EXACT,AG-GT
6384666,6384749,84,EXACT,AG-GT
6385036,6385125,90,EXACT,AG-GT
6385784,6385932,149,EXACT,AG-GT
6386976,6387104,129,EXACT,AG-GT
6387556,6387672,117,EXACT,AG-GT
6388130,6388210,81,EXACT,AG-GT
6388470,6388576,107,EXACT,AG-GT
6388959,6389065,107,START: end 3 GT
6389465,6389569,105,EXACT,AG

6389878,6390230,353,EXACT,AG-GT
6390773,6390929,157,EXACT,AG-GT
6391402,6391508,107,EXACT,GT
6391873,6391960,88

>> RNA-Seq evidence = 34/35 (97.1%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_052220 - 35 AAGCCTGCAATGCTGGTGCT X [CT]..ATG[ACT]

6392039,6392960,922,5' UTR
6391873,6392038,166,GT,,Old end=6391960 (-1000)
6391402,6391508,107,INTERNAL,EXACT,GT
6390773,6390929,157,INTERNAL,EXACT,AG-GT
6389878,6390230,353,INTERNAL,EXACT,AG-GT
6389465,6389569,105,INTERNAL,EXACT,AG
6388959,6389065,107,INTERNAL,START: end 3 GT
6388470,6388576,107,INTERNAL,EXACT,AG-GT
6388130,6388210,81,INTERNAL,EXACT,AG-GT
6387556,6387672,117,INTERNAL,EXACT,AG-GT
6386976,6387104,129,INTERNAL,EXACT,AG-GT
6385784,6385932,149,INTERNAL,EXACT,AG-GT
6385036,6385125,90,INTERNAL,EXACT,AG-GT
6384666,6384749,84,INTERNAL,EXACT,AG-GT
6384300,6384459,160,INTERNAL,EXACT,AG-GT
6383840,6383919,80,INTERNAL,EXACT,AG-GT
6383324,6383435,112,INTERNAL,EXACT,AG-GT
6382646,6382686,41,INTERNAL,EXACT,AG-GT
6382196,6382327,132,INTERNAL,EXACT,AG-GT
6381775,6381862,88,INTERNAL,END: start 7 AG-GC
6381104,6381197,94,INTERNAL,START: end 67 GT

6380296,6380412,117,INTERNAL,EXACT,AG-GT

6379626,6380017,392,INTERNAL,EXACT,AG-GT

6378568,6378975,408,INTERNAL,EXACT,TAGITGAITAA:AG-GT

6378224,6378321,98,INTERNAL,EXACT,AG-GT

6377654,6377748,95,INTERNAL,END: start 4 AG (ref:AC-GT)<< Possible error

6376789,6377020,232,INTERNAL,START: end -19 GT

6375939,6376100,162,INTERNAL,EXACT,AG-GT

6375162,6375298,137,INTERNAL,EXACT,AG-GT

6374508,6374557,50,INTERNAL,EXACT,AG-GT

6373882,6374011,130,INTERNAL,EXACT,AG-GT

6373363,6373507,145,INTERNAL,EXACT,AG-GT

6373001,6373103,103,INTERNAL,EXACT,AG-GT

6371530,6371784,255,INTERNAL,EXACT,AG-GT

6371159,6371254,96,INTERNAL,EXACT,AG-GT

6370268,6370398,131,AG,END:Starts:6367414-6369426-6368208-,Old start=6370268

6367414,6370269,2854,3' UTR

Leaky:ID=NCLIV_052220 - 35 AAGCCTGCAATGCTGGTGCT X TGCAATGC

6391961,6392960,1000,5' UTR

6391873,6391960,88,GT,,Old end=6391960 (-1000)

6391402,6391508,107,INTERNAL,EXACT,GT

6390773,6390929,157,INTERNAL,EXACT,AG-GT

6389878,6390230,353,INTERNAL,EXACT,AG-GT

6389465,6389569,105,INTERNAL,EXACT,AG

6388959,6389065,107,INTERNAL,START: end 3 GT

6388470,6388576,107,INTERNAL,EXACT,AG-GT

6388130,6388210,81,INTERNAL,EXACT,AG-GT

6387556,6387672,117,INTERNAL,EXACT,AG-GT

6386976,6387104,129,INTERNAL,EXACT,AG-GT

6385784,6385932,149,INTERNAL,EXACT,AG-GT

6385036,6385125,90,INTERNAL,EXACT,AG-GT

6384666,6384749,84,INTERNAL,EXACT,AG-GT
 6384300,6384459,160,INTERNAL,EXACT,AG-GT
 6383840,6383919,80,INTERNAL,EXACT,AG-GT
 6383324,6383435,112,INTERNAL,EXACT,AG-GT
 6382646,6382686,41,INTERNAL,EXACT,AG-GT
 6382196,6382327,132,INTERNAL,EXACT,AG-GT
 6381775,6381862,88,INTERNAL,END: start 7 AG-GC
 6381104,6381197,94,INTERNAL,START: end 67 GT
 6380296,6380412,117,INTERNAL,EXACT,AG-GT
 6379626,6380017,392,INTERNAL,EXACT,AG-GT
 6378568,6378975,408,INTERNAL,EXACT,TAGITGAITAA:AG-GT
 6378224,6378321,98,INTERNAL,EXACT,AG-GT
 6377654,6377748,95,INTERNAL,END: start 4 AG (ref:AC-GT)<< Possible error
 6376789,6377020,232,INTERNAL,START: end -19 GT
 6375939,6376100,162,INTERNAL,EXACT,AG-GT
 6375162,6375298,137,INTERNAL,EXACT,AG-GT
 6374508,6374557,50,INTERNAL,EXACT,AG-GT
 6373882,6374011,130,INTERNAL,EXACT,AG-GT
 6373363,6373507,145,INTERNAL,EXACT,AG-GT
 6373001,6373103,103,INTERNAL,EXACT,AG-GT
 6371530,6371784,255,INTERNAL,EXACT,AG-GT
 6371159,6371254,96,INTERNAL,EXACT,AG-GT
 6370268,6370398,131,AG,END:Starts:6367414-6369426-6368208-,Old start=6370268
 6367414,6370269,2854,3' UTR

#####

ID=NCLIV_052290 + 4 ACCCCCCACATGGATGGCTC

6455461,6455862,402

6456317,6456845,529

6457262,6458431,1170

6458752,6458927,176

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_052350 - 4 GTCGCCGCCATGCAGCTTAC

6478188,6478509,322,END:Starts:6477360-6477383-6477327-

6479070,6479234,165,EXACT,AG-GT

6480601,6480811,211,EXACT,AG-GT

6481696,6481732,37,START:Ends:6484316-6482009-6482102-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = 237843128 0.0 37.9 91.03 992 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_052360 - 7 TGTGCGTCCATGGCGACATC

6484621,6485579,959

6485843,6485936,94,END: start -484 AG

6486370,6486584,215,EXACT,AG-GT

6486720,6486974,255,EXACT,AG-GT

6487683,6487863,181,EXACT,AG-GT

6488377,6488569,193,START: end -12 GT

6489163,6489359,197,WITHIN:Starts:6489203-6489160-6489176-

>> RNA-Seq evidence = 5/7 (71.4%)

>> Homology evidence = 237843130 0.0 75.7 81.62 891 Toxoplasma gondii ME49 zinc
finger (C3HC4 RING finger) protein

>> Alternative start codon

ID=NCLIV_052360 - 7 TGTGCGTCCATGGCGACATC X [CT]..ATG[ACT]

6489498,6490359,862,5' UTR

6489163,6489497,335,GT,WITHIN:Starts:6489203-6489160-6489176-,Old end=6489359 (-1000)

6488377,6488569,193,INTERNAL,START: end -12 GT

6487683,6487863,181,INTERNAL,EXACT,AG-GT
6486720,6486974,255,INTERNAL,EXACT,AG-GT
6486370,6486584,215,INTERNAL,EXACT,AG-GT
6485843,6485936,94,INTERNAL,END: start -484 AG
6484621,6485579,959,AG,,Old start=6484621 (+ 1000)
6483621,6484622,1000,3' UTR
Leaky:ID=NCLIV_052360 - 7 TGTGCGTCCATGGCGACATC X GTCCATGG
6489360,6490359,1000,5' UTR
6489163,6489359,197,GT,WITHIN:Starts:6489203-6489160-6489176-,Old end=6489359 (-1000)
6488377,6488569,193,INTERNAL,START: end -12 GT
6487683,6487863,181,INTERNAL,EXACT,AG-GT
6486720,6486974,255,INTERNAL,EXACT,AG-GT
6486370,6486584,215,INTERNAL,EXACT,AG-GT
6485843,6485936,94,INTERNAL,END: start -484 AG
6484621,6485579,959,AG,,Old start=6484621 (+ 1000)
6483621,6484622,1000,3' UTR

ID=NCLIV_052420 + 5 TTCTGCCAGGCCGCCGACCT
6511541,6511793,253
6512491,6512871,381
6513407,6514026,620
6514297,6514368,72
6515115,6515387,273,START:Starts:6515794-6515115-

>> RNA-Seq evidence = 1/5 (20.0%)
>> Homology evidence = NONE

ID=NCLIV_052430 - 7 GTTGTCTAATGGGGGCGT
6519452,6519524,73,END:Starts:6518520-6518134-6518284-
6519699,6519742,44,EXACT,AG-GT

6520017,6520469,453,START: end 9 AG-GT (ref:AC-GT)<< Possible error
6520888,6521100,213,START: end 13 GT
6521601,6521937,337
6522175,6522857,683
6523606,6524937,1332

>> RNA-Seq evidence = 4/7 (57.1%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_052430 - 7 GTTGTTCTAATGGGGGGCGT X [CT]..ATG[ACT]

6525106,6525937,832,5' UTR

6523606,6525105,1500,GT,,Old end=6524937 (-1000)

6522175,6522857,683,INTERNAL,

6521601,6521937,337,INTERNAL,

6520888,6521100,213,INTERNAL,START: end 13 GT

6520017,6520469,453,INTERNAL,START: end 9 AG-GT (ref:AC-GT)<< Possible error

6519699,6519742,44,INTERNAL,EXACT,AG-GT

6519452,6519524,73,AG,END:Starts:6518520-6518134-6518284-,Old start=6519452

6518134,6519453,1318,3' UTR

Leaky:ID=NCLIV_052430 - 7 GTTGTTCTAATGGGGGGCGT X TGAGATGC

6525058,6525937,880,5' UTR

6523606,6525057,1452,GT,,Old end=6524937 (-1000)

6522175,6522857,683,INTERNAL,

6521601,6521937,337,INTERNAL,

6520888,6521100,213,INTERNAL,START: end 13 GT

6520017,6520469,453,INTERNAL,START: end 9 AG-GT (ref:AC-GT)<< Possible error

6519699,6519742,44,INTERNAL,EXACT,AG-GT

6519452,6519524,73,AG,END:Starts:6518520-6518134-6518284-,Old start=6519452

6518134,6519453,1318,3' UTR

#####

ID=NCLIV_052440 - 1 CCAAAGCAATGCCAGCTCT
6526684,6528078,1395

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_052500 - 9 ATTGGAGAAATGCTTGGCGC
6559599,6559682,84,END:Starts:6558468-6558411-6558469-
6560123,6560194,72,EXACT,AG-GT
6560729,6560849,121,EXACT,AG-GT
6561158,6561279,122,EXACT,AG-GT
6561678,6561763,86,EXACT,AG-GT
6561930,6561962,33,EXACT,AG-GT
6562191,6562343,153,EXACT,AG-GT
6562476,6562592,117,START: end 503 GT
6562761,6562872,112,OVER:Ends:6563095-6563091-6563157-

>> RNA-Seq evidence = 8/9 (88.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_052620 + 3 ACGTCCCCGATGGCACGCTC
6661466,6662053,588
6662880,6663439,560
6663807,6664740,934

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_052640 - 1 ACCACCGAAATGAGTCGAAT
6667662,6668693,1032

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_052690 - 1 CTCAAAGCCATGACCGCCTG
6683737,6684789,1053

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_052720 - 1 GTCTCCGAAATGAGGCGACT
6693309,6694349,1041

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_052740 - 1 GCCATTTTGATGGCACTTAT
6699901,6700893,993

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_052780 + 19 TCCCTCTTCATGGCGCGATT

6719487,6719579,93,END:EXACT

6720468,6720540,73,EXACT,AG-GT

6721006,6721047,42,EXACT,AG-GT

6722186,6722406,221,END: start 27 AG-GT

6722737,6723006,270,EXACT,AG-GT

6723408,6723501,94,EXACT,AG-GT

6723915,6724180,266,END: start -75 AG-GT (ref:AG-GT)<< Possible error

6724752,6724878,127,EXACT,AG-GT
6725254,6725327,74,EXACT,AG-GT
6725680,6725835,156,EXACT,AG-GT
6726313,6726434,122,EXACT,AG-GT
6727019,6727103,85,EXACT,AG-GT
6727533,6727780,248,EXACT,AG-GT
6728218,6728408,191,START: end -77 AG
6728660,6728746,87,END: start -5 GT
6729079,6729327,249,EXACT,AG-GT
6729676,6729743,68,EXACT,AG-GT
6730289,6730403,115
6730546,6730679,134,START:Ends:6731287-6731642-6731546-

>> RNA-Seq evidence = 18/19 (94.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_052790 + 3 TCTCTCGCCATGTCGTCTCC

6741786,6743782,1997,END:Starts:6740996-6740991-

6744292,6744411,120,EXACT,AG-GT

6744665,6745358,694,START:Ends:6746397-6746706-6746445-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = 237845264 0.0 95.1 79.97 832 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_052860 - 9 GTACGGCAAATGGAGCCCTA

6786652,6787495,844

6787654,6788172,519

6788591,6788694,104

6789228,6789310,83

6789635,6789727,93

6790011,6790197,187

6790567,6793202,2636,WITHIN: start 7 and end -1155 NONE

6793474,6793678,205

6794121,6797750,3630

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_052920 - 14 TCTAAAGCGATGTCAACCCT

6848769,6849804,1036,END:Starts:6848229-6848563-6846635-

6850269,6851225,957,EXACT,AG-GT

6851661,6851869,209,EXACT,GT

6852339,6852455,117,EXACT,AG-GT

6852770,6852869,100,EXACT,AG-GT

6853104,6853334,231,EXACT,AG-GT

6853666,6853970,305,START: end 24 GT

6854175,6854981,807,END: start 556 AG

6855445,6855725,281,EXACT,AG-GT

6856313,6856577,265,START: end 411 GT

6856915,6857033,119

6857521,6857823,303,END: start 275 AG

6858840,6859056,217,START: end 2561 GT

6859541,6860176,636,OVER:Ends:6859056-6861617-

>> RNA-Seq evidence = 12/14 (85.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_052960 + 12 TCGCTGCCCATGGTGGGGAG

6879241,6880600,1360

6881438,6881551,114
6881741,6881790,50
6882200,6882336,137
6882918,6882983,66
6883525,6883608,84
6883962,6884013,52
6884460,6884531,72
6884819,6884898,80
6885692,6885948,257,EXACT,AG-GT
6886172,6886245,74,START: end 5599 AG
6886762,6887319,558,OVER:Ends:6891965-6891839-6891844-

>> RNA-Seq evidence = 2/12 (16.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_052970 - 1 CCCTCCCGATGGTTCCTGC
6889739,6891241,1503

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_052990 - 4 ACCGGAGAGATGCTGCGGCT
6900397,6900567,171,END:Starts:6899366-6898799-
6901076,6901135,60,EXACT,AG-GT
6901407,6901640,234,EXACT,AG-GT
6902202,6902318,117,START:EXACT

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_053020 + 3 TCCTTCGCCATGCCGATTTC
 6925132,6925382,251
 6926497,6933683,7187
 6933958,6937088,3131

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

*** CHROMOSOME XI

#####

ID=NCLIV_053290 + 9 GCGGGCTCGATGGTGCTTCT
 137450,140726,3277,END:Starts:134185-135897-133928-
 141340,141491,152,EXACT,AG-GT
 142003,142149,147,EXACT,AG-GT
 142584,142802,219,EXACT,AG-GT
 143333,143539,207,EXACT,AG-GT
 143699,143929,231,EXACT,AG-GT
 145116,145209,94,EXACT,AG-GT
 145438,145514,77,EXACT,AG-GT
 146328,146546,219,START:Ends:146573-146941-146362-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_053310 + 1 CCTGCAGATATGACGGACCC
 157273,157974,702

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_053320 + 3 TTCAGCAAATGGCAGCGGA

161303,161464,162

161974,162086,113

162534,164367,1834

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_053330 - 4 ACTGCGTCAATGGCAGATCC

165861,166711,851,END:Starts:165312-165310-165306-

167342,167444,103,EXACT,AG-GT

167645,167714,70,EXACT,AG-GT

168010,168968,959,START:Ends:169701-169644-169641-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_053460 - 7 CTTTCTCGATGGCGGCTTC

287798,287810,13,END:Starts:285439-286858-287063-

288274,288355,82,EXACT,GT

288791,288845,55

289219,289307,89,END: start -274 AG (ref:AC-GT)<< Possible error

289604,289673,70,EXACT,AG-GT

290177,290241,65,EXACT,AG-GT

290780,291209,430,START:Ends:291504-291482-291501-

>> RNA-Seq evidence = 6/7 (85.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_053630 + 1 CGTCTCTCCATGGGCCCCCC
402467,405451,2985

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_053650 - 10 TCCGTCGACATGCGTTCTGC
411198,411473,276,END:Starts:410619-410554-410555-
411819,412285,467,START: end 1099 AG-GT
412746,412932,187,OVER: start -927 and end 452 AG-GT
413096,413384,289,END: start -1277 AG-GT
413721,413813,93,EXACT,AG-GT
414328,414415,88,EXACT,AG-GT
414696,414784,89,EXACT,AG-GT
414975,415069,95,EXACT,AG-GT
415455,415561,107,EXACT,AG-GT
416015,416201,187,START:Ends:417412-417445-

>> RNA-Seq evidence = 9/10 (90.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_053680 + 1 GTCGCCAGATGGGAAACGC
447351,449348,1998

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_053690 - 7 ACTGGCTTCATGGAGGAAAG
452637,454121,1485

454581,454676,96,EXACT,AG
 454996,455186,191,EXACT,AG-GT
 455466,455509,44,EXACT,AG-GT
 455828,456006,179,START: end 6 AG-GT (ref:AC-GT)<< Possible error
 456346,456641,296,EXACT,AG-GT
 457041,457188,148,START:Ends:461248-457733-458786-

>> RNA-Seq evidence = 6/7 (85.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_053690 - 7 ACTGGCTTCATGGAGGAAAG XI [CT]..ATG[ACT]

457582,457733,152,5' UTR

457041,457581,541,GT,START:Ends:461248-457733-458786-,Old end=457188

456346,456641,296,INTERNAL,EXACT,AG-GT

455828,456006,179,INTERNAL,START: end 6 AG-GT (ref:AC-GT)<< Possible error

455466,455509,44,INTERNAL,EXACT,AG-GT

454996,455186,191,INTERNAL,EXACT,AG-GT

454581,454676,96,INTERNAL,EXACT,AG

452637,454121,1485,AG,,Old start=452637 (+ 1000)

451637,452638,1000,3' UTR

Leaky:ID=NCLIV_053690 - 7 ACTGGCTTCATGGAGGAAAG XI CTTCATGG

457189,457733,545,5' UTR

457041,457188,148,GT,START:Ends:461248-457733-458786-,Old end=457188

456346,456641,296,INTERNAL,EXACT,AG-GT

455828,456006,179,INTERNAL,START: end 6 AG-GT (ref:AC-GT)<< Possible error

455466,455509,44,INTERNAL,EXACT,AG-GT

454996,455186,191,INTERNAL,EXACT,AG-GT

454581,454676,96,INTERNAL,EXACT,AG

452637,454121,1485,AG,,Old start=452637 (+ 1000)

451637,452638,1000,3' UTR

#####

ID=NCLIV_053900 - 5 CTCCGTGAGATGTTTCCTGT

601806,603726,1921,END:Starts:600876-600634-

604413,604561,149,START: end 304 AG-GT

605664,605789,126,END: start -449 AG

606220,606348,129,START: end 39 GT

606941,609490,2550

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_053970 - 11 TGCCGACAGATGGAGGCCTT

645819,645994,176,END:Starts:645350-645346-645231-

646597,646662,66,EXACT,AG-GT

647045,647109,65,EXACT,AG-GT

647380,647495,116,EXACT,AG-GT

647949,648068,120,EXACT,AG-GT

648323,648390,68,EXACT,AG-GT

648810,648977,168,START: end 22 GT

649387,649600,214

649734,649818,85

650096,650171,76

650752,650890,139

>> RNA-Seq evidence = 7/11 (63.6%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_053970 - 11 TGCCGACAGATGGAGGCCTT XI A..ATG

650957,651890,934,5' UTR

650752,650956,205,GT,,Old end=650890 (-1000)

650096,650171,76,INTERNAL,
649734,649818,85,INTERNAL,
649387,649600,214,INTERNAL,
648810,648977,168,INTERNAL,START: end 22 GT
648323,648390,68,INTERNAL,EXACT,AG-GT
647949,648068,120,INTERNAL,EXACT,AG-GT
647380,647495,116,INTERNAL,EXACT,AG-GT
647045,647109,65,INTERNAL,EXACT,AG-GT
646597,646662,66,INTERNAL,EXACT,AG-GT
645819,645994,176,AG,END:Starts:645350-645346-645231-,Old start=645819
645231,645820,588,3' UTR

#####

ID=NCLIV_053980 - 2 GTGGAGGAAATGTGTCTTCC
654181,654698,518
655250,656372,1123

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_054060 + 10 GCGGGGAAATGTGTGGGGA
725785,725967,183,END:Starts:724539-724527-
726630,726714,85,EXACT,AG-GT
727597,727760,164,EXACT,AG-GT
728029,728554,526,EXACT,TAGITGAI TAA:AG-GT
728706,729394,689,EXACT,AG-GT
729675,729743,69,EXACT,AG-GT
729981,730154,174,EXACT,AG-GT
730632,730957,326,END: start -102 AG-GT (ref:AG-GT)<< Possible error
731450,731643,194,EXACT,AG-GT
732164,732294,131,START:Ends:732842-732754-732690-

>> RNA-Seq evidence = 10/10 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

```
ID=NCLIV_054060      +      10      GCGGGGGAAATGTGTGGGGA XI      A..ATG
724539,724788,250,5' UTR
724789,725967,1179,GT,END:Starts:724539-724527-,Old start=725785
726630,726714,85,INTERNAL,EXACT,AG-GT
727597,727760,164,INTERNAL,EXACT,AG-GT
728029,728554,526,INTERNAL,EXACT,TAG|TGA|TAA:AG-GT
728706,729394,689,INTERNAL,EXACT,AG-GT
729675,729743,69,INTERNAL,EXACT,AG-GT
729981,730154,174,INTERNAL,EXACT,AG-GT
730632,730957,326,INTERNAL,END: start -102 AG-GT (ref:AG-GT)<< Possible error
731450,731643,194,INTERNAL,EXACT,AG-GT
732164,732294,131,AG,START:Ends:732842-732754-732690-,Old end=732294
732295,732842,548,3' UTR
```

#####

```
ID=NCLIV_054070      +      4      CGAATCGCCATGACTGCGTC
734668,734898,231,END:Starts:733898-733891-
735499,735605,107,EXACT,AG
736213,736349,137,EXACT,GT
736853,738201,1349,START:Ends:738331-740107-
```

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

```
ID=NCLIV_054140      -      3      CTTTTTCAGGAACCACACCT
816486,816869,384,END:Starts:816016-816020-815983-
817015,817172,158,EXACT,AG-GT
```

817340,817469,130,EXACT,AG-GT

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = 237829902 0.0 109.8 86.66 678 Toxoplasma gondii ME49
adenylyl cyclase associated protein

>> Alternative start codon

ID=NCLIV_054140 - 3 CTTTTTCAGGAACCACACCT XI G..ATGG

817419,818469,1051,5' UTR

817340,817418,79,GT,EXACT,Old end=817469 (-1000)

817015,817172,158,INTERNAL,EXACT,AG-GT

816486,816869,384,AG,END:Starts:816016-816020-815983-,Old start=816486

815983,816487,503,3' UTR

#####

ID=NCLIV_054150 - 4 TTCCACCCAATGGCGGAGGT

820326,820466,141,END:EXACT

821032,821154,123,EXACT,AG-GT

821581,821730,150,EXACT,AG-GT

822576,822584,9,START:Ends:822872-822876-822878-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_054240 + 11 GTTGTCGAGATGTGCTCCT

886039,886986,948

887293,887605,313,END: start -2 GT

887852,887997,146,START: end 275 AG

888371,888604,234,END: start 35 GT

888993,889250,258,EXACT,AG-GT

889630,889770,141,EXACT,AG-GT

890084,890149,66,EXACT,AG-GT

890519,890566,48,EXACT,ATG:AG-GT
890977,891082,106,EXACT,AG-GT
891458,891508,51,EXACT,TAGITGAIITAA:AG-GT
891923,892155,233,START:Ends:892844-892927-895245-

>> RNA-Seq evidence = 10/11 (90.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_054270 - 1 CAAGCAGACATGCTGCCGCC
910315,913206,2892

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_054485 + 1 TCAAAGGCAATGTCTCCTCG
1118250,1119275,1026

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_054510 + 8 GAGGCGTGCATGGAGGCGCT
1131281,1131295,15
1132024,1133208,1185,END: start -495 GT (ref:AG-GT)<< Possible error
1133554,1133889,336,EXACT,AG-GT
1136209,1136399,191,EXACT,AG-GT
1136589,1136790,202,EXACT,ATG:AG-GT
1137814,1138334,521,EXACT,AG-GT
1138655,1138904,250,EXACT,AG-GT
1139165,1139392,228,START:Ends:1140128-1140130-1139981-

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = 237829982 0.0 76.4 84.62 2523 Toxoplasma gondii ME49 heat shock protein 90

#####

ID=NCLIV_054610 - 10 GGCGAGGAGATGAACAGGCA

1208110,1208538,429,END:Starts:1207815-1205118-

1208710,1208917,208,EXACT,AG-GT

1209671,1210122,452,EXACT,GT

1210645,1211171,527

1211752,1212784,1033,END: start 17 AG

1213910,1214065,156,EXACT,AG-GT

1214627,1214692,66,START: end 7 AG-GT

1215096,1215475,380,START: end 701 AG-GT (ref:AC-GT)<< Possible error

1216023,1216168,146,OVER: start -927 and end 8 AG-GT (ref:AC-GT)<< Possible error

1216799,1216944,146,START:Starts:1216799-

>> RNA-Seq evidence = 8/10 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_054670 - 4 ATCCAACAGATGGCAGCGTG

1265482,1265526,45,END:Starts:1265077-1265030-1265491-

1266148,1266448,301,EXACT,AG-GT

1267518,1267638,121,START: end 64 GT

1267944,1268709,766

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_054710 + 9 GTGTTGGAAATGACTTCTCT

1295193,1296515,1323

1296796,1296876,81,END: start 5 GT
 1296996,1297082,87,EXACT,AG-GT
 1297635,1297683,49,EXACT,AG-GT
 1297945,1298015,71,EXACT,AG
 1298468,1298547,80
 1299150,1299213,64
 1299389,1299440,52
 1299924,1300009,86

>> RNA-Seq evidence = 4/9 (44.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_054730 + 5 TGGAGGGATATGCCCAACTT

1311981,1312281,301
 1312432,1312548,117
 1312980,1313062,83
 1313366,1313520,155
 1313877,1313988,112

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_054810 + 8 GGAAGAGGAATGCGTCGTTT

1365803,1366105,303,OVER:Starts:1360499-
 1366575,1366638,64,END: start -6076 Code:INTERNAL-
 1366966,1367073,108,END: start -1 GT (ref:AG-GT)<< Possible error
 1367696,1367828,133,EXACT,AG-GT
 1368505,1368658,154,EXACT,AG-GT
 1369254,1369316,63,EXACT,AG-GT
 1370268,1370300,33,EXACT,AG-GT

1370969,1371010,42,START:Ends:1371985-1374044-1374414-

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_054850 + 4 TCGACACCTATGGGCCAGT

1388074,1389064,991

1389285,1390456,1172

1390808,1390843,36

1391253,1391498,246

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_054890 - 3 TAGAAAGAAATGAAGAACAG

1408826,1408904,79,END:Starts:1407923-1408576-

1409464,1409840,377,START: end -55 GT

1411292,1411306,15

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_054910 - 7 CCCTCGGCAATGCGCGTGTC

1416285,1416362,78,END:Starts:1415596-1415620-1415574-

1416741,1416932,192,EXACT,AG-GT

1417285,1417479,195,EXACT,AG-GT

1417784,1417852,69,EXACT,AG-GT

1418550,1418805,256,EXACT,AG-GT

1419085,1419178,94,EXACT,AG-GT

1419442,1419691,250,START:EXACT

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_054910 - 7 CCCTCGGCAATGCGCGTGTC XI [CT]..ATG[ACT]

1420244,1420691,448,5' UTR

1419442,1420243,802,GT,START:EXACT,Old end=1419691 (-1000)

1419085,1419178,94,INTERNAL,EXACT,AG-GT

1418550,1418805,256,INTERNAL,EXACT,AG-GT

1417784,1417852,69,INTERNAL,EXACT,AG-GT

1417285,1417479,195,INTERNAL,EXACT,AG-GT

1416741,1416932,192,INTERNAL,EXACT,AG-GT

1416285,1416362,78,AG,END:Starts:1415596-1415620-1415574-,Old start=1416285

1415574,1416286,711,3' UTR

Leaky:ID=NCLIV_054910 - 7 CCCTCGGCAATGCGCGTGTC XI
GGCAATGC

1419692,1420691,1000,5' UTR

1419442,1419691,250,GT,START:EXACT,Old end=1419691 (-1000)

1419085,1419178,94,INTERNAL,EXACT,AG-GT

1418550,1418805,256,INTERNAL,EXACT,AG-GT

1417784,1417852,69,INTERNAL,EXACT,AG-GT

1417285,1417479,195,INTERNAL,EXACT,AG-GT

1416741,1416932,192,INTERNAL,EXACT,AG-GT

1416285,1416362,78,AG,END:Starts:1415596-1415620-1415574-,Old start=1416285

1415574,1416286,711,3' UTR

#####

ID=NCLIV_054930 - 4 GAGGCCGAGATGAAGCTGGA

1436179,1438470,2292,END:Starts:1434549-1434578-1434399-

1438962,1441380,2419,START: end 3243 GT

1441897,1442281,385,OVER: start -2935 and end 2342 GT

1442966,1446971,4006

>> RNA-Seq evidence = 2/4 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_055060 - 10 CACGAAGAAATGCGGCGTCG

1561857,1561901,45,END:Starts:1561649-1561647-1561626-

1562009,1562128,120,START: end 2 GT

1562692,1562946,255,END: start 7 AG

1563595,1563781,187,EXACT,AG-GT

1564087,1564307,221,EXACT,AG-GT

1565001,1565131,131,EXACT,GT

1565573,1566809,1237,START: end -352 GT

1567524,1567814,291,EXACT,GT

1568163,1568371,209

1568896,1568980,85

>> RNA-Seq evidence = 8/10 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_055080 + 4 GTCAAAGTGATGTGTGCTGA

1583163,1583473,311,END:EXACT

1583737,1583860,124,START: end 130 AG

1584125,1584195,71,END: start -14 GT (ref:AG-GT)<< Possible error

1584471,1586805,2335,START:Ends:1587218-1587221-1587211-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_055120 + 8 CATGTCGACATGTTCGAAAGT

1613307,1613370,64,END:EXACT
 1613710,1613790,81,EXACT,AG-GT
 1614072,1614181,110,EXACT,AG-GT
 1614413,1614484,72,EXACT,AG-GT
 1614888,1615014,127,EXACT,AG-GT
 1615462,1615614,153,EXACT,AG-GT
 1615928,1616086,159,EXACT,AG-GT
 1616435,1616490,56,START:Ends:1616760-1617183-1617197-

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_055120 + 8 CATGTCGACATGTCGAAAGT XI [CT]..ATG[ACT]

1612307,1613087,781,5' UTR

1613088,1613370,283,GT,END:EXACT,Old start=1613307 (+ 1000)

1613710,1613790,81,INTERNAL,EXACT,AG-GT

1614072,1614181,110,INTERNAL,EXACT,AG-GT

1614413,1614484,72,INTERNAL,EXACT,AG-GT

1614888,1615014,127,INTERNAL,EXACT,AG-GT

1615462,1615614,153,INTERNAL,EXACT,AG-GT

1615928,1616086,159,INTERNAL,EXACT,AG-GT

1616435,1616490,56,AG,START:Ends:1616760-1617183-1617197-,Old end=1616490

1616491,1617197,707,3' UTR

Leaky:ID=NCLIV_055120 + 8 CATGTCGACATGTCGAAAGT XI
 [CT]..ATG[ACT]

1612307,1613126,820,5' UTR

1613127,1613370,244,GT,END:EXACT,Old start=1613307 (+ 1000)

1613710,1613790,81,INTERNAL,EXACT,AG-GT

1614072,1614181,110,INTERNAL,EXACT,AG-GT

1614413,1614484,72,INTERNAL,EXACT,AG-GT

1614888,1615014,127,INTERNAL,EXACT,AG-GT
 1615462,1615614,153,INTERNAL,EXACT,AG-GT
 1615928,1616086,159,INTERNAL,EXACT,AG-GT
 1616435,1616490,56,AG,START:Ends:1616760-1617183-1617197-,Old end=1616490
 1616491,1617197,707,3' UTR

#####

ID=NCLIV_055160 + 11 TCCAAACTCATGGACCTCTT

1652122,1652191,70,END:Starts:1651662-1651698-
 1653140,1663012,9873,EXACT,AG-GT
 1663344,1663374,31,EXACT,AG-GT
 1663823,1663937,115,EXACT,AG-GT
 1664580,1664690,111,EXACT,AG-GT
 1665088,1665151,64,EXACT,AG-GT
 1665338,1665462,125,EXACT,AG-GT
 1665886,1666041,156,EXACT,AG-GT
 1666545,1666668,124,EXACT,ATG:AG-GT
 1666993,1667187,195,EXACT,AG-GT
 1667840,1670643,2804,START:Ends:1671265-1671395-1674319-

>> RNA-Seq evidence = 11/11 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_055180 + 6 TCGGGTGTTCATGACACCGGT

1682710,1683388,679
 1683680,1684783,1104,END: start 202 GT
 1685361,1687291,1931
 1687847,1688160,314,END: start -158 GT
 1688669,1688987,319,EXACT,AG-GT
 1689426,1689929,504,START:Ends:1690005-1690155-1690447-

>> RNA-Seq evidence = 4/6 (66.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_055180 + 6 TCGGGTGTCATGACACCGGT XI [CT]..ATG[ACT]

1681710,1682604,895,5' UTR

1682605,1683388,784,GT,,Old start=1682710 (+ 1000)

1683680,1684783,1104,INTERNAL,END: start 202 GT

1685361,1687291,1931,INTERNAL,

1687847,1688160,314,INTERNAL,END: start -158 GT

1688669,1688987,319,INTERNAL,EXACT,AG-GT

1689426,1689929,504,AG,START:Ends:1690005-1690155-1690447-,Old end=1689929

1689930,1690447,518,3' UTR

Leaky:ID=NCLIV_055180 + 6 TCGGGTGTCATGACACCGGT XI TTTGATGG

1681710,1682634,925,5' UTR

1682635,1683388,754,GT,,Old start=1682710 (+ 1000)

1683680,1684783,1104,INTERNAL,END: start 202 GT

1685361,1687291,1931,INTERNAL,

1687847,1688160,314,INTERNAL,END: start -158 GT

1688669,1688987,319,INTERNAL,EXACT,AG-GT

1689426,1689929,504,AG,START:Ends:1690005-1690155-1690447-,Old end=1689929

1689930,1690447,518,3' UTR

#####

ID=NCLIV_055270 - 9 ACGAGAGCCATGTCCACAAG

1778419,1778430,12

1778760,1778843,84

1779232,1779443,212

1779910,1780036,127,OVER: start -658 and end 385 NONE

1780371,1780457,87

1781304,1781447,144

1781769,1781962,194

1782081,1782171,91

1782815,1782955,141

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_055340 - 1 ACGGCGTTCATGGAGCGTCT

1836216,1836875,660,OVER:Starts:1835368-1835332-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_055400 - 2 GATGCACACATGGCCCTGTT

1904816,1905700,885

1907108,1911295,4188

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_055410 - 10 CTTCCCGCCATGCTTCCCAC

1918657,1918694,38,OVER:Starts:1918124-1918331-1918241-

1918944,1922762,3819,END: start -703 AG (ref:AC-GT)<< Possible error

1923669,1924549,881,START: end 121 GT

1924947,1925323,377

1925692,1927491,1800,END: start 7 AG

1927852,1928598,747,START: end 26 AG-GT (ref:AC-GT)<< Possible error

1928755,1929515,761

1929822,1931357,1536,END: start 6 AG

1931903,1932428,526,EXACT,AG-GT

1932812,1936396,3585,START:Ends:1936087-1932831-1935421-

>> RNA-Seq evidence = 7/10 (70.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_055410 - 10 CTTCCCGCCATGCTTCCCAC XI G..ATGG

1932827,1932831,5,5' UTR

1932812,1932826,15,GT,START:Ends:1936087-1932831-1935421-,Old end=1936396

1931903,1932428,526,INTERNAL,EXACT,AG-GT

1929822,1931357,1536,INTERNAL,END: start 6 AG

1928755,1929515,761,INTERNAL,

1927852,1928598,747,INTERNAL,START: end 26 AG-GT (ref:AC-GT)<< Possible error

1925692,1927491,1800,INTERNAL,END: start 7 AG

1924947,1925323,377,INTERNAL,

1923669,1924549,881,INTERNAL,START: end 121 GT

1918944,1922762,3819,INTERNAL,END: start -703 AG (ref:AC-GT)<< Possible error

1918657,1918694,38,AG,OVER:Starts:1918124-1918331-1918241-,Old start=1918657

1918124,1918658,533,3' UTR

#####

ID=NCLIV_055500 + 4 TTTCCCGCGATGCCACTACC

1996705,1999501,2797

2000720,2000962,243

2001242,2001576,335

2002074,2002451,378

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_055510 - 3 GTCCCTGTCATGAACGGCTG

2003532,2003578,47

2004090,2004965,876

2005722,2009580,3859

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_055540 - 5 AGAAACGGAATGTTTCAGCGG

2028844,2029791,948,END:Starts:2027347-2026300-

2030061,2031402,1342,EXACT,AG-GT

2031581,2031957,377,EXACT,AG-GT

2032268,2032527,260,END: start 6 AG-GT (ref:AC-GT)<< Possible error

2033113,2033455,343,START:Ends:2034685-2033739-2034690-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_055560 - 9 CTCTGCGCAATGCAGGTCAC

2046056,2046167,112,OVER:Starts:2037651-2042543-

2046809,2046946,138,EXACT,AG-GT

2047438,2047537,100,EXACT,AG-GT

2047863,2048047,185,EXACT,AG-GT

2048653,2048744,92,EXACT,AG-GT

2049408,2049477,70,EXACT,AG-GT

2049792,2049982,191,EXACT,AG-GT

2050224,2050358,135,EXACT,AG-GT

2050802,2050891,90,START:Ends:2050887-2050885-

>> RNA-Seq evidence = 8/9 (88.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_055670 + 4 TGCCCCCGTATGGTCCCTCG

2123435,2124786,1352,END:Starts:2124029-2122983-
2125349,2125639,291,EXACT,AG-GT
2126040,2126655,616,EXACT,AG-GT
2127397,2127546,150,START:Ends:2127914-2128039-2129398-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_055720 + 4 TCGAGACAAATGGGCAGCGG

2180277,2180304,28,OVER:EXACT
2180357,2184949,4593,END: start 3539 GT
2185178,2185494,317,EXACT,AG-GT
2185976,2186422,447,START:Ends:2186769-2188314-2188213-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_055750 - 8 CCTGTCTCAATGGCTTCTTT

2205921,2206133,213,END:EXACT
2206387,2206445,59,START: end 5 GT
2207307,2207445,139,END: start 15 AG
2207618,2207883,266,EXACT,GT
2208095,2208238,144
2208937,2209396,460,EXACT,AG
2209863,2210733,871,START: end -538 GT
2211159,2211262,104,START:Ends:2212390-2211419-

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_055790 + 15 ACCTTGCCGATGGCTCCGCG
 2233154,2234719,1566,WITHIN:Starts:2232252-2233885-
 2235153,2235386,234
 2235694,2235920,227
 2236332,2236955,624
 2237335,2237506,172
 2237912,2238041,130
 2238730,2238870,141
 2239743,2240107,365
 2240548,2240919,372
 2241495,2241917,423
 2242347,2242790,444
 2243371,2244232,862,END: start 14 GT
 2244874,2245214,341,EXACT,AG-GT
 2245575,2245987,413,EXACT,AG-GT
 2246415,2246502,88,START:EXACT

>> RNA-Seq evidence = 4/15 (26.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_055910 + 2 GTTTACGCCATGTCCTGGTC
 2379969,2381313,1345,END:Starts:2378870-2380267-2381041-
 2381862,2381998,137,START:Ends:2382074-2382382-2382501-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_055960 - 3 CCACCTCTGATGGCGCTGCC
 2410944,2411157,214,END:EXACT
 2411932,2412185,254,EXACT,AG-GT

2412993,2413355,363,START:Ends:2414212-2416772-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_056040 - 13 TGCGGCTCCATGGCGTCACC

2478911,2478997,87,OVER:Starts:2478579-2478335-

2479160,2479454,295,END: start -56 AG

2479886,2479986,101,EXACT,AG-GT

2480288,2480866,579,EXACT,AG-GT

2481324,2481496,173,EXACT,GT

2482132,2482209,78,EXACT,AG

2482750,2483198,449,EXACT,AG-GT

2483467,2483691,225,EXACT,AG-GT

2484149,2484692,544,START: end -2 GT

2484944,2485870,927,END: start -1 AG

2486173,2486447,275,EXACT,AG-GT

2486668,2486877,210,EXACT,GT

2487274,2488016,743

>> RNA-Seq evidence = 11/13 (84.6%)

>> Homology evidence = NONE

#####

ID=NCLIV_056050 - 12 GCTCTGGCCATGCAGCGGCA

2496929,2497094,166,END:Starts:2496178-2496090-

2497524,2497629,106,START: end 319 GT

2498105,2498167,63

2498886,2498945,60,EXACT,AG

2499958,2500291,334,START: end 4 GT

2500618,2500705,88

2501321,2501397,77
 2501635,2501685,51
 2502197,2502258,62
 2502464,2502617,154
 2502992,2503129,138,EXACT,AG
 2503448,2503498,51,START:Ends:2504695-2504292-

>> RNA-Seq evidence = 6/12 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_056070 + 8 CGAAAAGGCATGCATGGGAA

2515381,2515575,195,OVER:Starts:2515910-2514410-2514361-
 2515910,2515970,61,OVER: start -1500 and end 2077 GT (ref:AG-GT)<< Possible error
 2516523,2518047,1525,END: start -2113 GT (ref:AG-GT)<< Possible error
 2518677,2519059,383,EXACT,AG-GT
 2519588,2519775,188,EXACT,AG-GT
 2520084,2520200,117,EXACT,AG-GT
 2520748,2520897,150,EXACT,AG-GT
 2521322,2524123,2802,START:Ends:2525854-2525731-2525762-

>> RNA-Seq evidence = 6/8 (75.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_056080 - 8 TCCTTCGCCATGAGTCACAG

2528928,2531259,2332,END:Starts:2527027-2527077-2527078-
 2531572,2531651,80,EXACT,AG-GT
 2531965,2532093,129,EXACT,AG-GT
 2532353,2532596,244,EXACT,AG-GT
 2532884,2532972,89,EXACT,AG-GT
 2533110,2533624,515,EXACT,AG-GT

2534027,2534312,286,EXACT,AG-GT

2535103,2535354,252,START:Ends:2537772-2536251-

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = 237830362 0.0 221.6 78.80 1035 Toxoplasma gondii ME49
mitogen-activated protein kinase, putative,

#####

ID=NCLIV_056180 - 4 GCGATTGAAATGCTGGCGAA

2632038,2632339,302,END:Starts:2629560-2631553-2631554-

2632887,2633109,223,EXACT,AG-GT

2633229,2633543,315,EXACT,AG-GT

2634246,2634521,276,START:Ends:2634467-2634473-2634537-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_056230 + 1 AATTCCTATGGCGCAAGC

2668728,2671979,3252

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_056240 + 8 TTTCCTGGATGGCGACAGC

2676242,2678380,2139

2678927,2679128,202,END: start -51 GT (ref:AG-GT)<< Possible error

2679841,2679946,106,EXACT,AG-GT

2680617,2680709,93,EXACT,AG-GT

2681281,2681650,370,EXACT,AG-GT

2682351,2682513,163,EXACT,AG-GT

2683080,2683135,56,EXACT,AG-GT

2683683,2683760,78,OVER:Ends:2685056-2685647-2685372-

>> RNA-Seq evidence = 6/8 (75.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_056250 + 8 GCCGCCAGCTTCGCATCCA

2687602,2687732,131,END:Starts:2685803-2686480-2686022-

2688215,2688353,139,EXACT,AG-GT

2688776,2689109,334,EXACT,AG-GT

2689287,2689478,192,EXACT,AG-GT

2690129,2690286,158,EXACT,AG-GT

2690677,2690852,176,EXACT,AG-GT

2691401,2691508,108,EXACT,AG-GT

2692314,2692575,262,START:Ends:2694059-2694193-2694293-

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_056250 + 8 GCCGCCAGCTTCGCATCCA XI [CT]..ATG[ACT]

2686480,2687352,873,5' UTR

2687353,2687732,380,GT,END:Starts:2685803-2686480-2686022-,Old start=2687602

2688215,2688353,139,INTERNAL,EXACT,AG-GT

2688776,2689109,334,INTERNAL,EXACT,AG-GT

2689287,2689478,192,INTERNAL,EXACT,AG-GT

2690129,2690286,158,INTERNAL,EXACT,AG-GT

2690677,2690852,176,INTERNAL,EXACT,AG-GT

2691401,2691508,108,INTERNAL,EXACT,AG-GT

2692314,2692575,262,AG,START:Ends:2694059-2694193-2694293-,Old end=2692575

2692576,2694293,1718,3' UTR

Leaky:ID=NCLIV_056250 + 8 GCCGCCAGCTTCGCATCCA XI
AGCGATGC
2686480,2687373,894,5' UTR
2687374,2687732,359,GT,END:Starts:2685803-2686480-2686022-,Old start=2687602
2688215,2688353,139,INTERNAL,EXACT,AG-GT
2688776,2689109,334,INTERNAL,EXACT,AG-GT
2689287,2689478,192,INTERNAL,EXACT,AG-GT
2690129,2690286,158,INTERNAL,EXACT,AG-GT
2690677,2690852,176,INTERNAL,EXACT,AG-GT
2691401,2691508,108,INTERNAL,EXACT,AG-GT
2692314,2692575,262,AG,START:Ends:2694059-2694193-2694293-,Old end=2692575
2692576,2694293,1718,3' UTR

#####

ID=NCLIV_056270 + 12 TCATGAGCAATGAGCGATGC
2706021,2707339,1319,END:Starts:2705506-2705493-
2707811,2708263,453,EXACT,AG-GT
2708567,2708735,169,EXACT,AG
2709218,2709345,128,EXACT,GT
2709482,2709639,158,START: end 7 AG
2710104,2710231,128
2710768,2710836,69,END: start 44 GT
2711599,2713736,2138,EXACT,AG-GT
2714526,2716368,1843,EXACT,AG-GT
2716785,2716908,124,START: end 555 AG-GT
2717342,2717463,122,END: start -557 AG-GT
2717896,2717973,78,START:EXACT

>> RNA-Seq evidence = 11/12 (91.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_056280 - 3 ATTTATCAGAACACAACCTT
2720279,2720502,224
2720830,2721517,688
2722059,2722223,165

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_056450 + 1 TTTAGCGAAATGTCCAGCGC
2837124,2839028,1905

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_056600 + 3 AAAGGAGAGATGAGTAGACC
2980670,2982365,1696,END:Starts:2979793-2978954-2980128-
2982852,2983012,161,EXACT,AG-GT
2983613,2983993,381,START:Ends:2984889-2984880-2984885-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_056610 + 9 TTCCGGTAGTTCTGCATTCT
2986928,2987333,406,END:EXACT
2987776,2988225,450,EXACT,AG-GT
2988643,2988869,227,EXACT,AG-GT
2989131,2989310,180,EXACT,AG-GT
2989445,2989583,139,EXACT,AG-GT
2989998,2990170,173,EXACT,AG-GT
2990644,2990730,87,EXACT,ATG:AG-GT

2991043,2991203,161,EXACT,AG-GT

2991672,2991714,43,START:EXACT

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_056610 + 9 TTCCGGTAGTTCTGCATTCT XI A..ATG

2985928,2986996,1069,5' UTR

2986997,2987333,337,GT,END:EXACT,Old start=2986928 (+ 1000)

2987776,2988225,450,INTERNAL,EXACT,AG-GT

2988643,2988869,227,INTERNAL,EXACT,AG-GT

2989131,2989310,180,INTERNAL,EXACT,AG-GT

2989445,2989583,139,INTERNAL,EXACT,AG-GT

2989998,2990170,173,INTERNAL,EXACT,AG-GT

2990644,2990730,87,INTERNAL,EXACT,ATG:AG-GT

2991043,2991203,161,INTERNAL,EXACT,AG-GT

2991672,2991714,43,AG,START:EXACT,Old end=2991714 (-1000)

2991715,2992714,1000,3' UTR

#####

ID=NCLIV_056770 + 20 GTTCGCGAAATGAAAAAGTT

3139805,3139910,106,OVER:Ends:3139906-3139912-

3140411,3140429,19

3141251,3141352,102,END: start -9 GT (ref:AG-GT)<< Possible error

3141747,3141792,46,EXACT,AG-GT

3142218,3142288,71,EXACT,AG-GT

3142732,3142827,96,EXACT,AG-GT

3143375,3143461,87,EXACT,AG-GT

3144136,3144222,87,EXACT,AG-GT

3144744,3144812,69,EXACT,AG-GT

3145400,3145489,90,EXACT,AG-GT

3146042,3146098,57,EXACT,AG-GT
 3146712,3146883,172,START: end 155 AG
 3147493,3147783,291,END: start 13 GT (ref:AG-GT)<< Possible error
 3148136,3148180,45,EXACT,AG-GT
 3148399,3148459,61,EXACT,AG-GT
 3148832,3149025,194,EXACT,AG-GT
 3149521,3149601,81,EXACT,AG-GT
 3150232,3150362,131,EXACT,AG-GT
 3150638,3150712,75,EXACT,AG-GT
 3151188,3153351,2164,START:Ends:3153866-3153935-3153885-

>> RNA-Seq evidence = 18/20 (90.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_056790 + 1 AGCTTCGCGATGTCTGCTGC
 3170706,3172070,1365

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_056800 - 1 CCTTCCGCAATGTCCGCCCT
 3175240,3175458,219

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_057160 - 7 TAGTCTGGAATGCTCGTATG
 3538130,3538210,81,END:Starts:3537665-3537668-
 3538749,3538817,69,EXACT,AG-GT
 3539360,3539544,185,START: end 86 GT

3540081,3540216,136

3540954,3541075,122,END: start -177 AG

3541198,3541279,82,EXACT,AG-GT

3541628,3541639,12

>> RNA-Seq evidence = 5/7 (71.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_057200 - 5 CAGTCCGCAATGTCGATCAT

3569915,3570047,133,END:Starts:3567945-3568797-3567893-

3570488,3570590,103,EXACT,AG-GT

3571132,3571260,129,EXACT,AG-GT

3571659,3571709,51,EXACT,AG-GT

3572412,3572505,94,START:EXACT

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_057310 - 3 GAAACCGTGATGAGCTCTGC

3633163,3634082,920,OVER:Starts:3631769-3632120-3632023-

3634272,3634305,34,END: start -2249 Info:AG-GT-Stop Codon:AG-GT-donor=AC- (ref:AC-GT)<<
Possible error

3634863,3637610,2748,START:Ends:3640345-3639124-3640975-

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_057400 + 8 AGAGCCTGGATGGTTCACGC

3702427,3704616,2190

3704833,3705106,274

3705361,3705776,416

3706095,3706269,175

3706624,3706839,216

3707500,3707606,107

3707741,3707943,203

3708313,3709936,1624

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_057520 - 1 GTGACGGAAATGAGCCTCGG

3801205,3801783,579

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_057560 - 2 TGTGCGTCCATGGCGGCTTC

3850299,3850706,408

3851129,3855781,4653

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_057590 - 1 GTGGGGCGATGCTACTGGC

3878871,3880025,1155

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_057600 - 3 ATTCCCGGCATGTGTCAAGC

3913516,3916097,2582,END:Starts:3909824-3911680-3911249-
3916417,3916492,76,EXACT,AG-GT
3916800,3917483,684,START:Ends:3918814-3918841-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_057610 - 5 CCGCATCAAATGGCGCCATC

3921354,3921515,162,END:Starts:3918947-3919987-3918875-
3921994,3922066,73,EXACT,AG-GT
3922341,3922540,200,END: start 6 AG-GT
3923632,3923899,268,OVER: start -521 and end 1321 GT
3924451,3924926,476,OVER:Ends:3923899-3925220-

>> RNA-Seq evidence = 3/5 (60.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_057740 - 13 AAGTGACACATGGCCTCGAC

4015099,4015266,168,END:Starts:4014143-4014579-4014560-
4015994,4016228,235,EXACT,AG-GT
4016598,4017625,1028,EXACT,AG-GT
4018092,4018223,132,EXACT,AG-GT
4018963,4019442,480,EXACT,AG-GT
4019703,4020137,435,EXACT,AG-GT
4020752,4020823,72,EXACT,AG-GT
4021181,4021873,693,EXACT,AG-GT
4022270,4022633,364,EXACT,AG-GT
4023000,4023203,204,EXACT,AG-GT
4023692,4024791,1100,START: end -466 GT
4025262,4025844,583,WITHIN: start 16 and end -1 AG

4026163,4027202,1040

>> RNA-Seq evidence = 11/13 (84.6%)

>> Homology evidence = NONE

#####

ID=NCLIV_057800 + 8 CGCCTGGCGATGCCCCGCC

4087751,4091044,3294

4091531,4092700,1170

4093174,4093318,145

4093667,4095408,1742

4096365,4096554,190

4097041,4097492,452,EXACT,GT

4097818,4098599,782,EXACT,AG-GT

4099606,4100014,409,OVER:EXACT

>> RNA-Seq evidence = 3/8 (37.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_057830 + 10 TTCCGATCCATGGAGACACA

4129451,4130735,1285,END:Starts:4128214-4128211-

4131533,4132582,1050,END: start -6 AG-GT (ref:AG-GT)<< Possible error

4132939,4133030,92,EXACT,AG-GT

4133325,4133460,136,EXACT,AG-GT

4133684,4133958,275,START: end 125 AG-GT

4134248,4134465,218

4134769,4135033,265,EXACT,AG-GT

4135385,4135478,94,EXACT,AG

4135766,4136218,453,END: start 5 GT (ref:AG-GT)<< Possible error

4136664,4137577,914,START:Ends:4138278-4138661-4138924-

>> RNA-Seq evidence = 9/10 (90.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_057840 - 4 CGTGTGGAAATGTACACGTG

4139154,4139452,299

4139694,4139801,108

4139938,4140136,199

4140750,4140794,45

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_057910 + 7 TCGGCAGAGATGACGGCGAG

4189283,4189861,579,END:Starts:4188293-4188254-4189121-

4190411,4190613,203,EXACT,AG-GT

4191473,4191560,88,EXACT,AG-GT

4191945,4192031,87,EXACT,AG-GT

4192588,4192721,134,EXACT,AG-GT

4193099,4193174,76,EXACT,AG-GT

4193762,4194163,402,START:Ends:4195509-4195507-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_057980 + 1 TGTGTCCAATGGCGCTCAG

4260237,4261490,1254

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_058020 + 6 TCCAACGCGATGAACGGCTA
4285503,4285514,12,END:Starts:4284847-4284650-
4286196,4286264,69,EXACT,AG-GT
4286536,4287240,705,EXACT,AG-GT
4287729,4288613,885,EXACT,AG-GT
4288896,4289426,531,EXACT,AG-GT
4289802,4290788,987,START:Ends:4291160-4291318-4291143-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_058030 - 2 CGACCTCACATGGCTGTGCC
4293064,4296956,3893
4297406,4297481,76,START:Ends:4299461-4297540-

>> RNA-Seq evidence = 1/2 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_058080 - 2 CGTTTCTATATGGCATCTAG
4320826,4321430,605
4321690,4322263,574

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_058110 - 2 GTGGCCTCCATGGCAGGGAC
4332058,4332576,519
4332872,4333507,636

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_058120 + 4 ACCGCAGAAATGCAGTTCGA

4339329,4341494,2166

4341671,4342432,762,EXACT,GT

4342783,4342847,65,START: end 149 AG

4343473,4343554,82

>> RNA-Seq evidence = 2/4 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_058250 - 6 TTTCAGCTATGCCCTCCCC

4438836,4439279,444

4439878,4440116,239

4440495,4442121,1627

4442426,4442657,232

4443186,4443685,500

4444147,4444584,438

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_058270 - 11 CGTGACCGGATGGCGCCCGT

4452354,4452880,527,END:Starts:4450929-4451015-4452517-

4453113,4453566,454,START: end 3 GT

4453992,4454152,161

4454521,4454698,178

4455266,4455724,459

4456101,4456258,158,END: start 2 AG

4456569,4456629,61,EXACT,AG-GT

4456879,4457054,176,EXACT,AG-GT
 4457379,4457690,312,START: end 3 GT
 4458047,4458137,91,END: start 23 AG
 4458482,4459711,1230,START:Ends:4460489-4460600-

>> RNA-Seq evidence = 8/11 (72.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_058350 - 11 AGCGTCCAAATGGATCTCTC

4524192,4524245,54,END:Starts:4523525-4523470-4523563-
 4524912,4524962,51,EXACT,AG-GT
 4525348,4525427,80,EXACT,GT
 4525894,4526024,131
 4526438,4526569,132
 4527049,4527086,38
 4527379,4527488,110
 4527753,4527835,83
 4528221,4528266,46
 4530017,4530445,429,END: start 9 AG
 4530682,4530826,145,START:EXACT

>> RNA-Seq evidence = 5/11 (45.5%)

>> Homology evidence = 237830896 0.0 86.1 83.45 660 Toxoplasma gondii ME49
 vacuolar sorting ATPase Vps4

#####

ID=NCLIV_058370 - 6 TCGACCGCGATGTTCAACGG

4537579,4537638,60,END:Starts:4537302-4537290-4537294-
 4537930,4537999,70,EXACT,AG-GT
 4538325,4538395,71,EXACT,AG-GT
 4538814,4538987,174,EXACT,AG-GT

4539598,4539693,96,EXACT,AG-GT

4540183,4542429,2247,START:Ends:4549425-4542267-4545116-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_058370 - 6 TCGACCGCGATGTTCAACGG XI A..ATG

4542124,4542267,144,5' UTR

4540183,4542123,1941,GT,START:Ends:4549425-4542267-4545116-,Old end=4542429

4539598,4539693,96,INTERNAL,EXACT,AG-GT

4538814,4538987,174,INTERNAL,EXACT,AG-GT

4538325,4538395,71,INTERNAL,EXACT,AG-GT

4537930,4537999,70,INTERNAL,EXACT,AG-GT

4537579,4537638,60,AG,END:Starts:4537302-4537290-4537294-,Old start=4537579

4537290,4537580,289,3' UTR

#####

ID=NCLIV_058380 + 3 CCCGTCCACATGGCCCGCCT

4547652,4547953,302,END:Starts:4545334-4540320-4545366-

4548848,4549055,208,EXACT,AG-GT

4549595,4549774,180,START:Ends:4550311-4550178-4549613-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_058390 - 7 GAAGACCCGATGGCAGGACA

4551534,4551601,68

4551903,4551977,75

4552506,4552608,103

4552961,4553045,85

4553412,4553482,71

4553681,4553815,135

4554477,4554626,150

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_058400 + 9 GCCGTCGTCATGCCGCCTCG

4557433,4558249,817,END:Starts:4556637-4556600-

4558625,4558736,112,EXACT,AG-GT

4559038,4559125,88

4559546,4559663,118,END: start -276 GT

4560168,4560269,102,EXACT,AG-GT

4560771,4560841,71,EXACT,AG-GT

4561578,4561640,63,EXACT,AG-GT

4562175,4562414,240,EXACT,AG-GT

4563163,4563297,135,START:EXACT

>> RNA-Seq evidence = 8/9 (88.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_058410 + 9 GAACAGGCAATGCACAGTGT

4566540,4566633,94

4567039,4567293,255

4567690,4568004,315

4568465,4568620,156

4569025,4569247,223

4569595,4569809,215

4569968,4570055,88

4570687,4570736,50

4571103,4571161,59

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_058480 + 2 CCTCCCGCAATGCCTTTTCT

4637557,4638956,1400,END:Starts:4636945-4637485-4638283-

4639671,4639704,34,START:Ends:4640122-4640083-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_058480 + 2 CCTCCCGCAATGCCTTTTCT XI [CT]..ATG[ACT]

4638283,4638861,579,5' UTR

4638862,4638956,95,GT,END:Starts:4636945-4637485-4638283-,Old start=4637557

4639671,4639704,34,AG,START:Ends:4640122-4640083-,Old end=4639704

4639705,4640122,418,3' UTR

#####

ID=NCLIV_058490 - 8 GCGCGGTTAATGGCTGCTCT

4641622,4641648,27

4642124,4643453,1330

4643825,4643931,107

4644436,4644936,501

4645302,4645481,180

4645835,4646029,195

4646541,4646622,82

4647642,4648165,524

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_058590 - 5 TCTGTAGCCATGAATATCTC
4727881,4728006,126
4728524,4728720,197
4728807,4728949,143
4729111,4729545,435
4729682,4731375,1694

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_058630 + 6 CTCCTCGCCATGACGCTTGC
4747804,4748904,1101,END:Starts:4746706-4746576-
4749616,4749716,101,EXACT,GT
4749929,4750124,196,START: end -44 Info:ATG:AG-GT-ATG to Stop Codon:AG-GC-
4750514,4750725,212
4751116,4751191,76
4751785,4752354,570

>> RNA-Seq evidence = 3/6 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_058690 + 1 CCGTTTTGTATGGAGGCATT
4782180,4782863,684

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_058750 + 1 CGTCTCGCCATGTCGGACTC
4816979,4819030,2052,OVER:Ends:4822785-4822762-4822806-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_058790 - 4 TCTTTAGAGATGAGATCTTC

4830535,4830565,31,END:Starts:4828453-4828494-4829282-

4830671,4830942,272,END: start 7 AG-GT (ref:AC-GT)<< Possible error

4831080,4831475,396,EXACT,AG-GT

4831583,4832419,837,START:Ends:4832849-4832592-4832985-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_058800 + 4 CTTCACTATATGGAGAGTAT

4838134,4838799,666

4839165,4839485,321

4840002,4840388,387

4840912,4842426,1515

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_058820 + 3 TCCACTTTTATGGAAGCTTT

4851768,4852109,342

4852461,4852600,140

4853218,4853482,265

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_058870 - 6 TATCTGGAAATGCGAGCTGA

4871608,4873019,1412

4873808,4873961,154

4874591,4874815,225

4875440,4875604,165

4876299,4876429,131

4876680,4876743,64

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_058880 - 7 ACGCACCTGATGGAGCCTGG

4879095,4879336,242

4879913,4880078,166

4880634,4881134,501

4881624,4882273,650

4883413,4883582,170

4885103,4885205,103

4885546,4885624,79

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_058930 + 4 TGGGGCGCTATGAGGAGCGC

4935592,4940710,5119

4941265,4941412,148

4941710,4942018,309

4942483,4947151,4669

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_059070 - 7 GAAGTGGGCATGCGTCTCCG

5041409,5041701,293,END:Starts:5041241-5041296-5041060-

5042168,5042460,293,EXACT,AG-GT

5042763,5044300,1538,EXACT,AG-GT

5044550,5044699,150,EXACT,AG-GT

5045044,5045115,72,EXACT,AG-GT

5045410,5045628,219,EXACT,AG-GT

5045959,5046567,609,START:Ends:5047699-5047594-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_059070 - 7 GAAGTGGGCATGCGTCTCCG XI A..ATG

5047042,5047594,553,5' UTR

5045959,5047041,1083,GT,START:Ends:5047699-5047594-,Old end=5046567

5045410,5045628,219,INTERNAL,EXACT,AG-GT

5045044,5045115,72,INTERNAL,EXACT,AG-GT

5044550,5044699,150,INTERNAL,EXACT,AG-GT

5042763,5044300,1538,INTERNAL,EXACT,AG-GT

5042168,5042460,293,INTERNAL,EXACT,AG-GT

5041409,5041701,293,AG,END:Starts:5041241-5041296-5041060-,Old start=5041409

5041060,5041410,349,3' UTR

#####

ID=NCLIV_059080 - 7 CTCCTTCCATGGCATGCAA

5049642,5049837,196

5050342,5050547,206

5051196,5051423,228,END: start -24 Info:AG-GT-AG-GC-

5051893,5054862,2970,START: end -907 GT

5055494,5055726,233

5056540,5056963,424

5057178,5060354,3177

>> RNA-Seq evidence = 2/7 (28.6%)

>> Homology evidence = NONE

#####

ID=NCLIV_059160 - 16 TCTCCGGCGATGCAAAAGAC

5149437,5149587,151

5149822,5149922,101,END: start 10 Info:AG-GT-AG-GC-donor=TA- (ref:AC-GT)<< Possible error

5150249,5150335,87,EXACT,AG-GT

5151230,5152145,916,START: end -192 GT

5152604,5152690,87

5153014,5153396,383,END: start 4 AG

5153539,5154018,480,START: end 51 GT

5154507,5154975,469

5155714,5155791,78,END: start -172 AG

5156307,5156751,445,START: end 1 GT

5157150,5157606,457

5158017,5158401,385

5158785,5159164,380

5159500,5159740,241

5160243,5160697,455

5162538,5162585,48

>> RNA-Seq evidence = 7/16 (43.8%)

>> Homology evidence = NONE

#####

ID=NCLIV_059170 - 3 ACGACAGCCATGACCGCGTT

5164149,5164206,58,OVER:Starts:5163632-5163640-5163674-

5164894,5165032,139,START: end -45 AG-GT (ref:AC-GT)<< Possible error

5165355,5166861,1507,START:Ends:5167305-5167286-5167306-

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_059220 - 7 TTGCACGGCATGTTTCTTCC

5214878,5215996,1119

5216608,5217257,650

5218227,5218460,234

5219340,5219508,169

5220014,5220424,411

5220908,5221660,753

5222085,5222516,432

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_059270 + 8 GCTTGCGACATGAAGCTTGC

5255689,5255733,45

5255797,5255948,152

5256010,5256028,19

5256085,5256167,83

5256220,5256246,27

5256305,5256371,67

5256430,5256491,62

5256547,5256712,166

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_059290 + 14 CGCACTGGCATGTTGACGGA

5259362,5259577,216,END:EXACT
 5260053,5260164,112,START: end -4 Info:AG-GT-AG-GC-
 5260824,5261011,188,EXACT,AG-GT
 5261328,5261432,105,EXACT,AG
 5262130,5262186,57,EXACT,GT
 5262442,5262587,146,EXACT,AG-GT
 5263208,5263355,148,START: end -7 AG
 5263768,5263967,200,EXACT,GT
 5264186,5264330,145,EXACT,AG-GT
 5264684,5264778,95,EXACT,AG-GT
 5265244,5265312,69,EXACT,AG-GT
 5266135,5266260,126,EXACT,AG-GT
 5266787,5266846,60,EXACT,AG-GT
 5267514,5267613,100,START:Ends:5268501-5268421-5269971-

>> RNA-Seq evidence = 14/14 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_059320 - 3 GCGCGGCCATGACGCTCCG

5286968,5287367,400,END:Starts:5286930-5285553-
 5287917,5288074,158,START: end 3 GT
 5288591,5289409,819

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_059570 + 3 TTTCCGTAAATGGCCCCGCA

5475522,5475651,130,OVER:Starts:5474960-5474885-
 5476251,5477298,1048,WITHIN: start 35 and end -892 AG

5477659,5478217,559

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_059580 - 2 GCTCCAGACATGCTCGCCCT

5480547,5480855,309,END:EXACT

5481849,5482664,816,START:Ends:5482969-5482889-5482971-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_059610 + 1 CGTCACTCAATGGAGGCGTT

5503613,5504968,1356

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_059640 - 13 ATGAGAGCAATGCAGCTGCG

5518226,5518419,194,END:Starts:5517610-5517644-

5518929,5519073,145,EXACT,GT

5519307,5519381,75

5519634,5519803,170,EXACT,AG

5520310,5520465,156,EXACT,ATG:AG-GT

5520958,5521367,410,START: end -22 GT

5521819,5521919,101

5522191,5522331,141

5522775,5522885,111

5523339,5523551,213

5524260,5524451,192,START: end -7 GT

5525523,5525991,469

5526442,5526542,101

>> RNA-Seq evidence = 6/13 (46.2%)

>> Homology evidence = NONE

#####

ID=NCLIV_059660 - 7 AGAGGGGCAATGACGCCGAG

5561860,5564740,2881

5565128,5565365,238

5566059,5566316,258

5566700,5567014,315

5567467,5567622,156

5568002,5568184,183

5568612,5568687,76

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_059910 + 5 GGAACAGCCATGCCAAAGGT

5777764,5777772,9,END:Starts:5776923-5776911-

5778373,5778562,190,EXACT,AG

5779069,5779167,99,EXACT,GT

5779991,5780518,528,START: end -489 AG-GT

5780672,5781441,770

>> RNA-Seq evidence = 4/5 (80.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_059910 + 5 GGAACAGCCATGCCAAAGGT XI [CT]..ATG[ACT]

5776923,5777619,697,5' UTR

5777620,5777772,153,GT,END:Starts:5776923-5776911-,Old start=5777764

5778373,5778562,190,INTERNAL,EXACT,AG

5779069,5779167,99,INTERNAL,EXACT,GT

5779991,5780518,528,INTERNAL,START: end -489 AG-GT

5780672,5781441,770,AG,,Old end=5781441 (-1000)

5781442,5782441,1000,3' UTR

Leaky:ID=NCLIV_059910 + 5 GGAACAGCCATGCCAAAGGT XI AGCCATGC

5776923,5777763,841,5' UTR

5777764,5777772,9,GT,END:Starts:5776923-5776911-,Old start=5777764

5778373,5778562,190,INTERNAL,EXACT,AG

5779069,5779167,99,INTERNAL,EXACT,GT

5779991,5780518,528,INTERNAL,START: end -489 AG-GT

5780672,5781441,770,AG,,Old end=5781441 (-1000)

5781442,5782441,1000,3' UTR

#####

ID=NCLIV_059960 + 11 ATCGCTCCCATGGGGAATCC

5827069,5827426,358

5827950,5828167,218

5828714,5828847,134

5829409,5829849,441

5830408,5835685,5278

5836059,5836357,299

5837026,5838013,988

5838413,5842447,4035,END: start 2932 GT

5842976,5845273,2298,START: end -1672 AG-GT

5845820,5846016,197,EXACT,GT

5846633,5849534,2902,START:Ends:5850430-5850429-

>> RNA-Seq evidence = 4/11 (36.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_059970 + 3 CCCCCAGGAATGACCGACGA

5854593,5858903,4311

5859159,5860440,1282

5861327,5861415,89

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_060030 - 8 GCGTCTGCGATGACGGCCCA

5902276,5902509,234,END:Starts:5901638-5902196-5901627-

5902820,5903116,297,EXACT,AG-GT

5903264,5903388,125,EXACT,AG-GT

5903502,5903747,246,EXACT,AG-GT

5904196,5904322,127,START: end -15 GT

5904763,5905011,249,END: start 37 AG (ref:AC-GT)<< Possible error

5905747,5906283,537,END: start -204 AG-GT (ref:AC-GT)<< Possible error

5907302,5907517,216,START:Ends:5907846-5907840-5907862-

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_060040 - 4 TGTGACGAGATGAGCCGCCG

5911252,5911488,237,END:Starts:5909330-5910808-5910813-

5911616,5911708,93,EXACT,AG-GT

5911802,5911990,189,EXACT,AG-GT

5912117,5913709,1593,START:Ends:5914252-5914221-5914257-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = 237843240 0.0 62.1 89.40 1670 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_060050 - 8 TTCGTTTCGATGGCAACCGC

5917214,5918740,1527

5919026,5919654,629

5920096,5920217,122,EXACT,AG

5920789,5921109,321,EXACT,AG-GT

5921493,5921665,173,START: end -1 GT

5922879,5924628,1750,START: end 2 GT

5924968,5925718,751,EXACT,Info:AG-GC-AG-GT-

5926378,5927749,1372,START:Ends:5928394-5928132-

>> RNA-Seq evidence = 6/8 (75.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_060060 - 2 TCCACTCAAATGGTAACCGG

5931710,5933887,2178,END:Starts:5930193-5930208-5930215-

5934314,5934508,195,START:Ends:5935076-5935057-5934461-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_060110 - 8 TTCGTCTTGATGGACGGCGT

5957008,5959052,2045,OVER:Starts:5954517-5954412-

5959637,5959685,49,START: end 143 GT

5960254,5960309,56

5960792,5960860,69

5961086,5961128,43

5961668,5961713,46,EXACT,AG

5961979,5962040,62,EXACT,AG-GT

5962379,5962696,318,START:Ends:5963573-5963602-

>> RNA-Seq evidence = 4/8 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_060190 - 15 GCAAGCGAAATGAAAGTTTC

6014161,6014309,149,END:Starts:6004291-6004298-

6014751,6014837,87,EXACT,AG-GT

6015162,6015243,82,EXACT,AG-GT

6015563,6015649,87,EXACT,GT

6015917,6016059,143,EXACT,AG-GT

6016174,6016261,88,START: end 178 GT

6016754,6016930,177

6017163,6017268,106

6017552,6017875,324

6018324,6018503,180,END: start -137 AG

6019078,6019130,53,START: end 3231 GT

6019424,6019470,47,OVER: start -346 and end 2891 GT

6020298,6020446,149,OVER: start -1220 and end 1915 GT

6020648,6020748,101,OVER: start -1570 and end 1613 GT

6021099,6021185,87,OVER:Ends:6019589-6022361-

>> RNA-Seq evidence = 8/15 (53.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_060200 - 4 TGCTCAGAGATGAGGGAGAC

6023810,6023971,162

6024451,6024666,216

6025107,6025195,89

6026088,6026340,253

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_060210 + 7 TTCTAGCTCATGGCCAGTCC

6027883,6027992,110

6028543,6028637,95,OVER: start -37 and end 4711 GT

6029054,6029142,89,OVER: start -548 and end 4206 GT

6029475,6029549,75,OVER: start -969 and end 3799 GT

6030490,6030617,128,OVER: start -1984 and end 2731 GT

6030907,6030982,76,OVER: start -2401 and end 2366 GT

6031319,6031462,144,OVER:Starts:6030490-6028506-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_060240 + 9 GTGGTTTCTATGGTTGCCGG

6053022,6053233,212

6053875,6053934,60

6055070,6055436,367

6056019,6056255,237,EXACT,AG-GT

6056508,6056776,269,EXACT,AG-GT

6057068,6057122,55,START: end 1093 GT

6057922,6058215,294,END: start -854 GT

6058896,6059005,110,END: start -286 AG-GT

6059528,6059579,52,OVER:Ends:6060019-6059988-

>> RNA-Seq evidence = 5/9 (55.6%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_060240 + 9 GTGGTTTCTATGGTTGCCGG XI G..ATGG

6052022,6052991,970,5' UTR

6052992,6053233,242,GT,,Old start=6053022 (+ 1000)

6053875,6053934,60,INTERNAL,

6055070,6055436,367,INTERNAL,

6056019,6056255,237,INTERNAL,EXACT,AG-GT

6056508,6056776,269,INTERNAL,EXACT,AG-GT

6057068,6057122,55,INTERNAL,START: end 1093 GT

6057922,6058215,294,INTERNAL,END: start -854 GT

6058896,6059005,110,INTERNAL,END: start -286 AG-GT

6059528,6059579,52,AG,OVER:Ends:6060019-6059988-,Old end=6059579

6059580,6060019,440,3' UTR

#####

ID=NCLIV_060250 + 3 GACGAGCTCATGGGAGAGGC

6062455,6062576,122,END:Starts:6061645-6060807-6061633-

6063006,6063086,81,EXACT,AG-GT

6063821,6063845,25,START:Ends:6064438-6063850-6064317-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_060250 + 3 GACGAGCTCATGGGAGAGGC XI A..ATG

6061645,6061884,240,5' UTR

6061885,6062576,692,GT,END:Starts:6061645-6060807-6061633-,Old start=6062455

6063006,6063086,81,INTERNAL,EXACT,AG-GT

6063821,6063878,58,AG,START:Ends:6064438-6063850-6064317-,Old end=6063845

6063879,6064438,560,3' UTR

*** **CHROMOSOME XII**

#####

ID=NCLIV_060290 - 2 AGTAGGGCAATGACGGCAGA

2479,2791,313,END:Starts:1-556-2-

3140,3270,131,START:EXACT

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_060290 - 2 AGTAGGGCAATGACGGCAGA XII A..ATG

3361,4270,910,5' UTR

3140,3360,221,GT,START:EXACT,Old end=3270 (-1000)

2479,2791,313,AG,END:Starts:1-556-2-,Old start=2479

1,2480,2478,3' UTR

#####

ID=NCLIV_060330 + 9 ACACAGCAGATGGAGTGTCTG

39700,40474,775

41315,41398,84

41653,41758,106

41966,42169,204

42546,42738,193

42872,43018,147

43276,43488,213

44575,44825,251

45074,45371,298

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_060370 + 4 TGTGGACGTATGGGGAGCCC
 71042,71230,189
 71533,71619,87
 72167,72220,54,END: start -87 GT
 72701,72958,258,START:Ends:73478-74622-

>> RNA-Seq evidence = 2/4 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_060450 + 7 TCCTTTGTCATGACAGCCGG
 121912,122322,411,END:EXACT
 122718,123482,765,START: end 504 AG-GT
 124236,124466,231,EXACT,AG-GT
 125128,125800,673,EXACT,AG-GT
 126372,126598,227,EXACT,AG-GT
 127098,128217,1120,START: end 731 AG-GT (ref:AG-GT)<< Possible error
 128492,128565,74,OVER:EXACT

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_060450 + 7 TCCTTTGTCATGACAGCCGG XII G..ATGG
 120912,121554,643,5' UTR
 121555,122322,768,GT,END:EXACT,Old start=121912 (+ 1000)
 122718,123482,765,INTERNAL,START: end 504 AG-GT
 124236,124466,231,INTERNAL,EXACT,AG-GT
 125128,125800,673,INTERNAL,EXACT,AG-GT
 126372,126598,227,INTERNAL,EXACT,AG-GT
 127098,128217,1120,INTERNAL,START: end 731 AG-GT (ref:AG-GT)<< Possible error
 128492,128565,74,AG,OVER:EXACT,Old end=128565 (-1000)

128566,129565,1000,3' UTR

#####

ID=NCLIV_060470 - 14 CACTGGGAAATGCCGGCCAA

137678,137740,63,END:Starts:136711-136645-136728-

138144,138308,165,EXACT,AG-GT

139454,139627,174,END: start -83 AG-GT (ref:AC-GT)<< Possible error

140108,140230,123,EXACT,AG-GT

140984,141145,162,EXACT,AG-GT

141663,141894,232,END: start 36 ATG:AG-GC

142354,142497,144

142782,142922,141,EXACT,AG-GT

143470,143611,142,EXACT,AG-GT

144245,144375,131,EXACT,AG-GT

144945,145133,189,EXACT,AG-GT

145583,145656,74,EXACT,AG-GT

146319,146510,192,EXACT,AG-GT

147254,147337,84,START:Ends:148303-148090-148135-

>> RNA-Seq evidence = 13/14 (92.9%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_060470 - 14 CACTGGGAAATGCCGGCCAA XII [CT]..ATG[ACT]

148055,148090,36,5' UTR

147254,148054,801,GT,START:Ends:148303-148090-148135-,Old end=147337

146319,146510,192,INTERNAL,EXACT,AG-GT

145583,145656,74,INTERNAL,EXACT,AG-GT

144945,145133,189,INTERNAL,EXACT,AG-GT

144245,144375,131,INTERNAL,EXACT,AG-GT

143470,143611,142,INTERNAL,EXACT,AG-GT

142782,142922,141,INTERNAL,EXACT,AG-GT

142354,142497,144,INTERNAL,
 141663,141894,232,INTERNAL,END: start 36 ATG:AG-GC
 140984,141145,162,INTERNAL,EXACT,AG-GT
 140108,140230,123,INTERNAL,EXACT,AG-GT
 139454,139627,174,INTERNAL,END: start -83 AG-GT (ref:AC-GT)<< Possible error
 138144,138308,165,INTERNAL,EXACT,AG-GT
 137678,137740,63,AG,END:Starts:136711-136645-136728-,Old start=137678
 136645,137679,1033,3' UTR
 Leaky:ID=NCLIV_060470 - 14 CACTGGGAAATGCCGGCCAA XII
 [CT]..ATG[ACT]
 148037,148090,54,5' UTR
 147254,148036,783,GT,START:Ends:148303-148090-148135-,Old end=147337
 146319,146510,192,INTERNAL,EXACT,AG-GT
 145583,145656,74,INTERNAL,EXACT,AG-GT
 144945,145133,189,INTERNAL,EXACT,AG-GT
 144245,144375,131,INTERNAL,EXACT,AG-GT
 143470,143611,142,INTERNAL,EXACT,AG-GT
 142782,142922,141,INTERNAL,EXACT,AG-GT
 142354,142497,144,INTERNAL,
 141663,141894,232,INTERNAL,END: start 36 ATG:AG-GC
 140984,141145,162,INTERNAL,EXACT,AG-GT
 140108,140230,123,INTERNAL,EXACT,AG-GT
 139454,139627,174,INTERNAL,END: start -83 AG-GT (ref:AC-GT)<< Possible error
 138144,138308,165,INTERNAL,EXACT,AG-GT
 137678,137740,63,AG,END:Starts:136711-136645-136728-,Old start=137678
 136645,137679,1033,3' UTR
 #####
 ID=NCLIV_060490 + 2 AGCATTTAAATGGCTCATCC
 153803,153889,87
 154108,154833,726

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_060530 - 10 CTGTCCTCCATGGCATCCTG

187762,187851,90,END:Starts:185537-185383-

188088,189021,934

190117,190209,93

190865,190927,63

191772,191859,88

192254,192380,127

193037,193096,60

193589,193800,212

194056,194130,75,END: start 4 AG

194415,196005,1591,START:Ends:197068-195529-

>> RNA-Seq evidence = 3/10 (30.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_060540 + 2 TAGCCACAGATGGGGATCGA

199185,201128,1944

201547,205740,4194

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_060740 - 1 NNNNNNNNGCAAATACAC

356428,356760,333

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_060741 - 1 ATCTGCCAGATGGCTCTGCG

356861,358020,1160,START:Ends:360938-358218-

>> RNA-Seq evidence = 1/1 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_060750 - 16 GTCGCACCAATGGAGTCTCT

360302,360559,258,END:Ends:360938-358218-

360701,360809,109,EXACT,AG-GT

361176,361533,358,EXACT,AG-GT

361795,361917,123,EXACT,ATG:AG-GT

362404,362551,148,EXACT,AG-GT

362929,363114,186,EXACT,AG-GT

363334,363440,107,EXACT,AG-GT

363671,363729,59,EXACT,AG-GT

363932,364075,144,EXACT,TAG|TGA|TAA:AG-GT

364325,364410,86,EXACT,AG-GT

364920,365027,108,EXACT,AG-GT

365434,365602,169,EXACT,AG-GT

365911,366179,269,EXACT,AG-GT

366549,366711,163,START: end -10 GT

367045,367164,120,END: start 3 AG

368321,368658,338

>> RNA-Seq evidence = 15/16 (93.8%)

>> Homology evidence = 237842882 0.0 82.3 85.70 2518 Toxoplasma gondii ME49

DNA replication licensing factor

#####

ID=NCLIV_060810 - 6 ATCGCCGAGATGCAGCCCCG

407614,407780,167

408409,409561,1153

409964,410042,79,END: start 4 AG (ref:AC-GT)<< Possible error

410427,410864,438,START: end 350 AG-GT (ref:AC-GT)<< Possible error

411765,411876,112,EXACT,AG-GT

412350,413214,865,START:Ends:414149-413958-414246-

>> RNA-Seq evidence = 4/6 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_060840 + 4 CGTCTCTCCATGGCGGCAGA

430020,430702,683,END:EXACT

431035,431080,46,EXACT,AG-GT

431294,431463,170,EXACT,AG-GT

431877,432186,310,START:Ends:431890-432403-432478-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_060930 - 10 CAGCTGTTGATGGCGGAGAT

496804,496908,105

497405,498112,708,END: start -27 AG

498248,498601,354,START: end 135 GT

499390,499464,75

500012,500061,50

500455,500508,54

501012,501063,52

501600,501692,93

502309,502383,75,END: start 25 AG (ref:AC-GT)<< Possible error

502817,503074,258,OVER:EXACT

>> RNA-Seq evidence = 4/10 (40.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_060940 + 2 ACAGCCGCCATGACCTCCTC

505823,509142,3320

509662,510844,1183

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_061010 + 2 GTTTGCCAGATGGCGGACCC

583995,584375,381

584506,584793,288

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_061060 - 7 TCAAGATAGATGGCGAGAGT

629620,629922,303,END:Starts:628699-629124-629150-

630381,630470,90,EXACT,AG-GT

631048,631142,95,START: end 1634 GT

632110,632136,27,OVER: start -1062 and end 640 GT

632901,633051,151

633611,633745,135

634262,634270,9

>> RNA-Seq evidence = 3/7 (42.9%)

>> Homology evidence = NONE

#####

ID=NCLIV_061080 - 9 CTCCTCTCCATGGCGTCTCG

642648,642708,61,END:Starts:641909-641580-

643211,643401,191,EXACT,AG-GT

643713,643884,172,EXACT,AG

644401,644518,118,EXACT,AG-GT

645022,645067,46,START: end 156 GT

645526,645696,171,END: start -51 AG

646108,646143,36,START: end -1 GT

646382,646507,126

647081,647527,447

>> RNA-Seq evidence = 7/9 (77.8%)

>> Homology evidence = NONE

#####

ID=NCLIV_061230 - 8 TCCCTTGACATGATCTCGAA

777368,778071,704,END:Starts:774574-775731-774787-

778632,778940,309,EXACT,AG-GT

779432,779548,117,EXACT,AG-GT

779703,779873,171,EXACT,AG-GT

780329,780394,66,EXACT,AG-GT

780871,781149,279,EXACT,AG-GT

781658,782953,1296,START: end -37 GT

783123,783156,34

>> RNA-Seq evidence = 7/8 (87.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_061310 - 3 AGTTATTTGATGGTGGCCGG

832430,833876,1447

834333,834523,191

834897,834938,42

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_061400 - 27 GAAGGAGTCATGCCGGTCGC

883730,884170,441,END:EXACT

884814,885374,561,EXACT,AG-GT

886082,886488,407,EXACT,AG-GT

887137,887186,50,EXACT,AG-GT

887873,887935,63,EXACT,AG-GT

888255,888517,263,EXACT,AG-GT

889216,890088,873,EXACT,AG-GT

890604,890819,216,START: end 908 Info:AG-GC-AG-GT-

891626,891727,102,END: start -1022 Info:AG-GC-AG-GT-

891872,892021,150,EXACT,AG-GT

892515,892627,113,EXACT,AG-GT

893014,893131,118,EXACT,AG-GT

893681,893764,84,EXACT,AG-GT

894273,894551,279,EXACT,AG-GT

894906,895100,195,EXACT,AG-GT

895756,895803,48,EXACT,AG-GT

896226,896333,108,EXACT,AG-GT

896609,896767,159,EXACT,AG-GT

897677,897903,227,EXACT,AG-GT

898560,898706,147,EXACT,AG-GT

899266,899315,50,EXACT,AG-GT

899808,899950,143,START: end 2 GT

900141,900308,168,END: start 10 AG (ref:AC-GT)<< Possible error

900859,901049,191,EXACT,AG-GT

901610,901657,48,EXACT,AG-GT

902219,902272,54,START: end -1 GT

902832,904365,1534

>> RNA-Seq evidence = 26/27 (96.3%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_061400 - 27 GAAGGAGTCATGCCGGTCGC XII [CT]..ATG[ACT]

905332,905365,34,5' UTR

902832,905331,2500,GT,,Old end=904365 (-1000)

902219,902272,54,INTERNAL,START: end -1 GT

901610,901657,48,INTERNAL,EXACT,AG-GT

900859,901049,191,INTERNAL,EXACT,AG-GT

900141,900308,168,INTERNAL,END: start 10 AG (ref:AC-GT)<< Possible error

899808,899950,143,INTERNAL,START: end 2 GT

899266,899315,50,INTERNAL,EXACT,AG-GT

898560,898706,147,INTERNAL,EXACT,AG-GT

897677,897903,227,INTERNAL,EXACT,AG-GT

896609,896767,159,INTERNAL,EXACT,AG-GT

896226,896333,108,INTERNAL,EXACT,AG-GT

895756,895803,48,INTERNAL,EXACT,AG-GT

894906,895100,195,INTERNAL,EXACT,AG-GT

894273,894551,279,INTERNAL,EXACT,AG-GT

893681,893764,84,INTERNAL,EXACT,AG-GT

893014,893131,118,INTERNAL,EXACT,AG-GT

892515,892627,113,INTERNAL,EXACT,AG-GT

891872,892021,150,INTERNAL,EXACT,AG-GT

891626,891727,102,INTERNAL,END: start -1022 Info:AG-GC-AG-GT-

890604,890819,216,INTERNAL,START: end 908 Info:AG-GC-AG-GT-

889216,890088,873,INTERNAL,EXACT,AG-GT
888255,888517,263,INTERNAL,EXACT,AG-GT
887873,887935,63,INTERNAL,EXACT,AG-GT
887137,887186,50,INTERNAL,EXACT,AG-GT
886082,886488,407,INTERNAL,EXACT,AG-GT
884814,885374,561,INTERNAL,EXACT,AG-GT
883730,884170,441,AG,END:EXACT,Old start=883730 (+ 1000)
882730,883731,1000,3' UTR
Leaky:ID=NCLIV_061400 - 27 GAAGGAGTCATGCCGGTCGC XII
[CT]..ATG[ACT]
905023,905365,343,5' UTR
902832,905022,2191,GT,,Old end=904365 (-1000)
902219,902272,54,INTERNAL,START: end -1 GT
901610,901657,48,INTERNAL,EXACT,AG-GT
900859,901049,191,INTERNAL,EXACT,AG-GT
900141,900308,168,INTERNAL,END: start 10 AG (ref:AC-GT)<< Possible error
899808,899950,143,INTERNAL,START: end 2 GT
899266,899315,50,INTERNAL,EXACT,AG-GT
898560,898706,147,INTERNAL,EXACT,AG-GT
897677,897903,227,INTERNAL,EXACT,AG-GT
896609,896767,159,INTERNAL,EXACT,AG-GT
896226,896333,108,INTERNAL,EXACT,AG-GT
895756,895803,48,INTERNAL,EXACT,AG-GT
894906,895100,195,INTERNAL,EXACT,AG-GT
894273,894551,279,INTERNAL,EXACT,AG-GT
893681,893764,84,INTERNAL,EXACT,AG-GT
893014,893131,118,INTERNAL,EXACT,AG-GT
892515,892627,113,INTERNAL,EXACT,AG-GT
891872,892021,150,INTERNAL,EXACT,AG-GT
891626,891727,102,INTERNAL,END: start -1022 Info:AG-GC-AG-GT-

890604,890819,216,INTERNAL,START: end 908 Info:AG-GC-AG-GT-
889216,890088,873,INTERNAL,EXACT,AG-GT
888255,888517,263,INTERNAL,EXACT,AG-GT
887873,887935,63,INTERNAL,EXACT,AG-GT
887137,887186,50,INTERNAL,EXACT,AG-GT
886082,886488,407,INTERNAL,EXACT,AG-GT
884814,885374,561,INTERNAL,EXACT,AG-GT
883730,884170,441,AG,END:EXACT,Old start=883730 (+ 1000)
882730,883731,1000,3' UTR

#####

ID=NCLIV_061540 + 13 TGCATTTCAATGGAGGTCAA

988513,989076,564
989518,989658,141
989964,990123,160
990551,990822,272
991023,991654,632
991906,992308,403
992632,992814,183
993107,993463,357
993932,994837,906
995275,995463,189
995931,996480,550
997044,997358,315
997709,999258,1550

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_061580 - 7 CCGCCCGTGATGTTTTGCTG

1020970,1021497,528,END:Starts:1020519-1020762-1020553-

1021852,1022037,186,EXACT,ATG:AG-GT
 1022776,1023135,360,EXACT,AG-GT
 1023496,1023780,285,EXACT,AG-GT
 1024455,1024631,177,EXACT,AG-GT
 1025121,1026096,976,EXACT,AG-GT
 1026555,1027309,755,START:EXACT

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_061650 + 2 CTTTCCCGCATGGCAGCGAA

1073856,1073897,42,END:Starts:1067763-1072151-1072467-

1074471,1075175,705,START:Ends:1075918-1075972-1075901-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_061760 - 1 GTCTCTGTCATGTGGCTCTT

1202269,1203252,984

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_061900 - 4 CGCAACGAAATGACGAAATC

1306345,1306601,257,OVER:Starts:1306012-1306064-1305926-

1307072,1307153,82,EXACT,AG-GT

1307484,1307668,185,EXACT,AG-GT

1308300,1308567,268,START:Ends:1309506-1309475-1309515-

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_061900 - 4 CGCAACGAAATGACGAAATC XII A..ATG

1309192,1309475,284,5' UTR

1308300,1309191,892,GT,START:Ends:1309506-1309475-1309515-,Old end=1308567

1307484,1307668,185,INTERNAL,EXACT,AG-GT

1307072,1307153,82,INTERNAL,EXACT,AG-GT

1306345,1306601,257,AG,OVER:Starts:1306012-1306064-1305926-,Old start=1306345

1305926,1306346,419,3' UTR

#####

ID=NCLIV_061910 + 40 GCGGAATCAATGGAAGCCCG

1312887,1313058,172

1313356,1313472,117

1313706,1314095,390

1314685,1314720,36

1315276,1315599,324

1316693,1316755,63

1317873,1317990,118

1318676,1318773,98

1319592,1319828,237

1321098,1321192,95

1321632,1321833,202

1322545,1322663,119

1323428,1323584,157

1323944,1323982,39

1324632,1324723,92

1325174,1325519,346

1325832,1325864,33

1326755,1326958,204

1327611,1327634,24

1328144,1328236,93
1328739,1328837,99
1329036,1329193,158
1329768,1329989,222
1330505,1331021,517
1331365,1331397,33
1331773,1331807,35
1332821,1332959,139
1333080,1333130,51
1333390,1333557,168
1333935,1334156,222
1334555,1334678,124
1335224,1335519,296
1337100,1337159,60
1338048,1338479,432,EXACT,AG-GT
1338904,1339272,369,START: end -4 AG
1339607,1339654,48,EXACT,GT
1340028,1340218,191,EXACT,AG-GT
1340896,1341010,115,EXACT,AG-GT
1341243,1341440,198,END: start 66 AG-GT (ref:AG-GT)<< Possible error
1342041,1342444,404,START:Ends:1346225-1346180-

>> RNA-Seq evidence = 7/40 (17.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_062000 - 1 GGCTGTCAAATGGATTCTAG

1392881,1394746,1866

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_062020 - 2 CTTTTCATGGCCACACG

1405690,1409515,3826

1409822,1411353,1532

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_062030 - 1 GTCTTTCGCCGGAAATTTT

1416301,1420875,4575

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_062060 - 11 CTGGAGGGAATGAAACAGCG

1442229,1442504,276

1442720,1443043,324

1443672,1443743,72

1444124,1444222,99

1444812,1444952,141

1445924,1446086,163

1446481,1446551,71

1446749,1446913,165

1447893,1448264,372

1449570,1449712,143

1449981,1450068,88

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_062120 + 5 TCCTGCGAAATGAGAGACCA
1503655,1506453,2799
1506646,1507106,461
1507489,1507897,409,END: start -353 GT
1508389,1510223,1835,START: end -775 AG
1510505,1511408,904

>> RNA-Seq evidence = 2/5 (40.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_062170 - 8 TCATCAGCGATGTATCTTCT
1545154,1546166,1013
1546354,1546843,490
1546969,1547018,50
1547412,1547462,51
1547823,1547999,177
1548504,1548597,94
1549033,1549483,451
1550140,1550240,101

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_062190 - 3 GTCGCCTCAATGGCTGCAAC
1559720,1560377,658,END:Starts:1559492-1559699-1559493-
1560912,1561324,413,OVER: start -205 and end 126 GT
1561896,1562141,246

>> RNA-Seq evidence = 1/3 (33.3%)

>> Homology evidence = 237844024 0.0 71.4 79.13 891 Toxoplasma gondii ME49
protease inhibitor

#####

ID=NCLIV_062250 + 7 CCGAAGGCAATGAAGGCGAG

1597895,1600609,2715,END:Starts:1595850-1596454-1597505-

1601087,1601149,63,EXACT,AG-GT

1601835,1601954,120,EXACT,AG-GT

1602340,1602420,81,EXACT,AG-GT

1603014,1603161,148,EXACT,AG-GT

1603523,1603689,167,EXACT,AG-GT

1603943,1605400,1458,START:Ends:1606084-1606095-1606134-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = 237844034 0.0 96.1 77.22 1906 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_062330 + 3 GGGGAGGAGATGCACAGGTT

1639187,1639262,76,END:EXACT

1639883,1640075,193,START: end -4 AG-GT (ref:AG-GT)<< Possible error

1640463,1640526,64,START:Ends:1640472-1642413-1643991-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_062330 + 3 GGGGAGGAGATGCACAGGTT XII [CT]..ATG[ACT]

1638187,1639171,985,5' UTR

1639172,1639262,91,GT,END:EXACT,Old start=1639187 (+ 1000)

1639883,1640075,193,INTERNAL,START: end -4 AG-GT (ref:AG-GT)<< Possible error

1640463,1640526,64,AG,START:Ends:1640472-1642413-1643991-,Old end=1640526

1640527,1643991,3465,3' UTR

Leaky:ID=NCLIV_062330 + 3 GGGGAGGAGATGCACAGGTT XII
 GGAGATGC
 1638187,1639186,1000,5' UTR
 1639187,1639262,76,GT,END:EXACT,Old start=1639187 (+ 1000)
 1639883,1640075,193,INTERNAL,START: end -4 AG-GT (ref:AG-GT)<< Possible error
 1640463,1640526,64,AG,START:Ends:1640472-1642413-1643991-,Old end=1640526
 1640527,1643991,3465,3' UTR

#####

ID=NCLIV_062460 - 7 CTCATTGGTATGCTTTTTCT
 1714603,1716202,1600
 1716995,1717180,186
 1717849,1720533,2685,EXACT,Code:INTERNAL-
 1721219,1721523,305,EXACT,AG-GT
 1722054,1722164,111,EXACT,AG-GT
 1722626,1722780,155,EXACT,AG-GT
 1723249,1724203,955,START:Ends:1728438-1724927-

>> RNA-Seq evidence = 5/7 (71.4%)

>> Homology evidence = 237844074 0.0 76.7 76.60 667 Toxoplasma gondii ME49
 hypothetical protein

>> Alternative start codon

ID=NCLIV_062460 - 7 CTCATTGGTATGCTTTTTCT XII A..ATG
 1724423,1724927,505,5' UTR
 1723249,1724422,1174,GT,START:Ends:1728438-1724927-,Old end=1724203
 1722626,1722780,155,INTERNAL,EXACT,AG-GT
 1722054,1722164,111,INTERNAL,EXACT,AG-GT
 1721219,1721523,305,INTERNAL,EXACT,AG-GT
 1717849,1720533,2685,INTERNAL,EXACT,Code:INTERNAL-
 1716995,1717180,186,INTERNAL,
 1714603,1716202,1600,AG,,Old start=1714603 (+ 1000)
 1713603,1714604,1000,3' UTR

#####

ID=NCLIV_062470 - 3 CTGCGTTCGATGGATCCTCG

1729354,1729721,368

1729997,1732009,2013

1732310,1734662,2353

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_062490 + 1 CCAGGGCCAATGGGGCCTCA

1747310,1752424,5115

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_062670 - 1 AGTACAGTTATGTCCGTTTC

1948880,1950034,1155

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_062680 - 1 AGTACAGTTATGTCTGTTTC

1953727,1954863,1137

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_062690 - 1 AGTACAGTTATGTCCGTTTC

1958887,1960041,1155

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_062730 + 9 GTCTCAGAGATGTCGATAGA

1992535,1992636,102,END:Starts:1991508-1991653-1991746-

1993630,1993843,214,EXACT,AG-GT

1994014,1994168,155,EXACT,AG-GT

1994311,1994369,59,EXACT,AG-GT

1994777,1994882,106,EXACT,AG-GT

1995166,1995217,52,EXACT,AG-GT

1995674,1995725,52,EXACT,AG-GT

1996275,1996373,99,EXACT,AG-GT

1996785,1996941,157,START:Ends:1997314-1999871-2001566-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_062750 + 1 GCACAGTGGATGGCTGGACG

2003166,2004668,1503

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_062760 + 1 CTCCTAGCAATGAGGGTTTC

2006736,2007635,900

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_062810 + 6 TACATACTCATGGCGGACAG

2053478,2053989,512,END:Starts:2052799-2052777-2052829-
 2054260,2054350,91,EXACT,AG-GT
 2054578,2055440,863,EXACT,AG-GT
 2055967,2057195,1229,EXACT,AG-GT
 2057616,2058086,471,START: end 1409 AG
 2058299,2063016,4718

>> RNA-Seq evidence = 5/6 (83.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_062850 + 13 TTGGGACACATGGGAGACGC

2095304,2096488,1185,END:Starts:2096045-2094426-
 2096900,2097523,624,EXACT,Info:AG-GC-AG-GT-
 2098040,2098920,881
 2099338,2099382,45
 2099760,2100312,553
 2100509,2101397,889,EXACT,GT
 2101773,2102336,564,START: end -1 AG
 2103045,2103138,94
 2103641,2103677,37
 2104249,2104637,389,END: start -34 GT
 2105227,2105362,136,EXACT,AG-GT
 2106007,2106168,162,EXACT,Info:AG-GC-AG-GT-
 2106666,2108366,1701

>> RNA-Seq evidence = 7/13 (53.8%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_062850 + 13 TTGGGACACATGGGAGACGC XII G..ATGG
 2096045,2096353,309,5' UTR

2096354,2096488,135,GT,END:Starts:2096045-2094426-,Old start=2095304
 2096900,2097523,624,INTERNAL,EXACT,Info:AG-GC-AG-GT-
 2098040,2098920,881,INTERNAL,
 2099338,2099382,45,INTERNAL,
 2099760,2100312,553,INTERNAL,
 2100509,2101397,889,INTERNAL,EXACT,GT
 2101773,2102336,564,INTERNAL,START: end -1 AG
 2103045,2103138,94,INTERNAL,
 2103641,2103677,37,INTERNAL,
 2104249,2104637,389,INTERNAL,END: start -34 GT
 2105227,2105362,136,INTERNAL,EXACT,AG-GT
 2106007,2106168,162,INTERNAL,EXACT,Info:AG-GC-AG-GT-
 2106666,2108366,1701,AG,,Old end=2108366 (-1000)
 2108367,2109366,1000,3' UTR

#####

ID=NCLIV_062930 - 3 CGACGTCCCATGGCGTCTGC
 2150243,2151330,1088,OVER:Ends:2151592-2151527-2151789-
 2152347,2152424,78
 2152590,2153673,1084

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_063000 - 15 AAGGAAGAAATGAACAGCGA
 2227231,2228197,967,END:Starts:2226759-2226753-2226632-
 2228331,2228986,656,EXACT,AG-GT
 2229296,2230538,1243,EXACT,AG-GT
 2230989,2231520,532,EXACT,AG-GT
 2231827,2232152,326,EXACT,AG-GT
 2232769,2233025,257,START: end 784 GT

2233517,2233601,85,OVER: start -748 and end 208 GT

2234454,2234606,153

2235058,2235614,557

2236024,2236137,114

2237002,2237095,94

2237531,2237981,451

2238900,2238900,1

2239054,2239254,201

2239277,2239744,468

>> RNA-Seq evidence = 6/15 (40.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_063080 + 3 CCCGCAGCGATGCAAACCCT

2294321,2297815,3495

2298541,2298720,180

2299406,2301829,2424

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_063140 - 5 TTCCGCGATATGCCAGCTTT

2333343,2333501,159,END:Starts:2333017-2332907-2333045-

2333894,2333968,75,EXACT,ATG:AG-GT

2334500,2334578,79,EXACT,AG-GT

2335918,2336042,125,EXACT,AG-GT

2336439,2337146,708,START:Ends:2341436-2337590-2337932-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_063310 - 13 TTCTGCCAAATGGAGGGAGG

2474575,2474796,222,END:Starts:2471845-2474792-2471878-

2475218,2475283,66,EXACT,AG-GT

2475776,2475870,95,EXACT,AG-GT

2476175,2476271,97,EXACT,AG-GT

2476918,2477234,317,EXACT,AG-GT

2477637,2477945,309,EXACT,AG-GT

2478685,2478865,181,EXACT,AG-GT

2479280,2479452,173,EXACT,AG-GT

2479955,2480134,180,EXACT,AG-GT

2480568,2480971,404,EXACT,AG-GT

2481383,2481807,425,START: end 182 GT

2482487,2482684,198,END: start -211 AG

2483086,2483364,279,START:Ends:2483998-2483960-

>> RNA-Seq evidence = 13/13 (100.0%)

>> Homology evidence = 237835484 0.0 93.0 76.55 959 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_063320 + 1 GTTTCAGCGATGCGACTTCG

2484850,2488335,3486

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_063380 + 3 CGGTGATACATGGCAGGCAC

2517898,2518519,622,END:EXACT

2519248,2519863,616,EXACT,AG-GT

2520230,2520311,82,START:EXACT

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_063400 - 3 GGGACAGAGATGAAAGCAGT
 2531934,2532780,847,END:Starts:2531912-2529803-
 2533261,2533724,464,EXACT,AG-GT
 2534005,2534112,108

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_063400 - 3 GGGACAGAGATGAAAGCAGT XII A..ATG
 2534404,2535112,709,5' UTR
 2534005,2534403,399,GT,,Old end=2534112 (-1000)
 2533261,2533724,464,INTERNAL,EXACT,AG-GT
 2531934,2532780,847,AG,END:Starts:2531912-2529803-,Old start=2531934
 2529803,2531935,2131,3' UTR

#####

ID=NCLIV_063430 + 6 CGTGAAGGAATGCTCTGCCT
 2547137,2547226,90
 2547654,2547867,214
 2548167,2548304,138
 2548665,2548837,173
 2549019,2550987,1969
 2552859,2553193,335

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_063440 - 4 CTTTCCGCCATGAAGTCACC
2554320,2554401,82
2555523,2555575,53
2556637,2556722,86
2556922,2558356,1435

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_063530 + 15 ATCGACGCAATGTTTGTGG
2609814,2609828,15
2610420,2610774,355
2611239,2611375,137
2611846,2611974,129
2612671,2612802,132
2613185,2613400,216
2613829,2613988,160
2614444,2614556,113
2614996,2615082,87
2615618,2615781,164
2616432,2616518,87
2617250,2617450,201
2617880,2618033,154
2618717,2618809,93
2619205,2619441,237

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_063630 + 4 CCCGGCGAAATGCCGGTCGA

2673347,2674237,891

2674954,2675908,955,EXACT,AG-GT

2676272,2676429,158,EXACT,AG-GT

2676888,2677154,267,START:Ends:2677601-2677762-2677740-

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_063650 - 12 CTCAGTCCAATGGCGTCTTC

2690412,2690489,78,END:Starts:2689714-2690418-2689731-

2690933,2691325,393,EXACT,AG-GT

2691466,2691570,105,EXACT,AG-GT

2691865,2692345,481,EXACT,AG-GT

2692499,2692640,142,EXACT,AG-GT

2693103,2693191,89,START: end 58 GT

2693524,2693654,131

2694570,2695091,522

2695722,2696265,544,END: start 317 AG

2697016,2697751,736,START: end 1539 GT

2700590,2701028,439,END: start -1235 AG

2701474,2704134,2661,START:Ends:2704971-2702933-

>> RNA-Seq evidence = 10/12 (83.3%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_063650 - 12 CTCAGTCCAATGGCGTCTTC XII [CT]..ATG[ACT]

2702830,2702933,104,5' UTR

2701474,2702829,1356,GT,START:Ends:2704971-2702933-,Old end=2704134

2700590,2701028,439,INTERNAL,END: start -1235 AG

2697016,2697751,736,INTERNAL,START: end 1539 GT

2695722,2696265,544,INTERNAL,END: start 317 AG
 2694570,2695091,522,INTERNAL,
 2693524,2693654,131,INTERNAL,
 2693103,2693191,89,INTERNAL,START: end 58 GT
 2692499,2692640,142,INTERNAL,EXACT,AG-GT
 2691865,2692345,481,INTERNAL,EXACT,AG-GT
 2691466,2691570,105,INTERNAL,EXACT,AG-GT
 2690933,2691325,393,INTERNAL,EXACT,AG-GT
 2690412,2690489,78,AG,END:Starts:2689714-2690418-2689731-,Old start=2690412
 2689714,2690413,698,3' UTR
 Leaky:ID=NCLIV_063650 - 12 CTCAGTCCAATGGCGTCTTC XII
 GGCGATGC
 2702584,2702933,350,5' UTR
 2701474,2702583,1110,GT,START:Ends:2704971-2702933-,Old end=2704134
 2700590,2701028,439,INTERNAL,END: start -1235 AG
 2697016,2697751,736,INTERNAL,START: end 1539 GT
 2695722,2696265,544,INTERNAL,END: start 317 AG
 2694570,2695091,522,INTERNAL,
 2693524,2693654,131,INTERNAL,
 2693103,2693191,89,INTERNAL,START: end 58 GT
 2692499,2692640,142,INTERNAL,EXACT,AG-GT
 2691865,2692345,481,INTERNAL,EXACT,AG-GT
 2691466,2691570,105,INTERNAL,EXACT,AG-GT
 2690933,2691325,393,INTERNAL,EXACT,AG-GT
 2690412,2690489,78,AG,END:Starts:2689714-2690418-2689731-,Old start=2690412
 2689714,2690413,698,3' UTR
 #####
 ID=NCLIV_063720 + 12 GACGTTCCAATGGTGTCCGGC
 2761362,2763591,2230
 2764051,2767274,3224,END: start 2610 GT (ref:AG-GT)<< Possible error

2767713,2768822,1110,END: start 333 GT
 2769218,2769373,156,END: start 84 AG-GT
 2769508,2769603,96,START: end 185 AG
 2770049,2770186,138
 2770758,2770865,108,OVER: start -207 and end 1647 GT
 2771412,2771507,96,OVER: start -861 and end 1005 GT
 2771982,2772512,531,END: start -1431 GT
 2772926,2773003,78
 2773378,2773844,467
 2774274,2774388,115

>> RNA-Seq evidence = 5/12 (41.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_063770 - 13 GCGTCCGCCATGCCAACTGC

2826213,2826281,69,END:Starts:2826192-2826114-
 2826603,2826650,48,EXACT,AG-GT
 2827122,2827196,75,START: end 435 AG-GT
 2827416,2827631,216,END: start -294 AG-GT
 2827988,2828074,87,START: end -58 GT
 2828702,2828805,104
 2829441,2829550,110
 2829882,2829960,79,EXACT,GT
 2830120,2830178,59
 2830492,2830573,82
 2830794,2830857,64
 2831271,2831355,85,END: start 1 AG
 2831811,2832598,788,OVER:Ends:2833253-2832900-

>> RNA-Seq evidence = 7/13 (53.8%)

>> Homology evidence = NONE

#####

ID=NCLIV_063780 + 3 TTTGTCTTGATGGGAGGAAA

2834521,2834536,16

2835296,2836450,1155

2837048,2839926,2879

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_063810 - 7 CCTTGCTGATGGAGCCGCC

2867253,2867364,112,END:Starts:2863316-2863051-2863282-

2867973,2868040,68,EXACT,AG-GT

2868434,2868515,82,EXACT,AG-GT

2868819,2868958,140,EXACT,AG-GT

2869255,2869329,75,EXACT,AG-GT

2870056,2870117,62

2870596,2872603,2008,START:Ends:2873191-2873135-2873192-

>> RNA-Seq evidence = 6/7 (85.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_063840 - 21 CGAGCCGCCATGCACACGCC

2884626,2884679,54,END:Starts:2884030-2883819-2883963-

2885010,2885097,88,START: end 4 GT (ref:AC-GT)<< Possible error

2885499,2885602,104,END: start -1 AG (ref:AC-GT)<< Possible error

2885859,2885939,81,EXACT,AG-GT

2886492,2886563,72,EXACT,AG-GT

2886780,2886880,101,EXACT,AG-GT

2887183,2887367,185,EXACT,AG-GT

2887746,2888011,266,EXACT,AG-GT
 2888465,2888518,54,EXACT,AG-GT
 2889147,2889376,230,EXACT,AG-GT
 2889803,2889897,95,EXACT,AG-GT
 2890361,2890607,247,EXACT,AG-GT
 2891026,2891150,125,EXACT,AG-GT
 2891565,2891744,180,EXACT,AG-GT
 2892186,2892799,614,EXACT,AG-GT
 2893256,2893316,61,EXACT,GT
 2893893,2893990,98,EXACT,AG-GT
 2894392,2894456,65,EXACT,AG-GT
 2894775,2895027,253,EXACT,AG-GT
 2895539,2897275,1737,EXACT,AG-GT
 2897608,2898495,888,START:Ends:2898817-2898815-

>> RNA-Seq evidence = 21/21 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_063940 - 2 CCGTACGCGATGTGGCAGAA

2993108,2995326,2219,END:Starts:2993852-2995150-2995068-

2995552,2997691,2140,START:Ends:2995787-2996380-2997900-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_063940 - 2 CCGTACGCGATGTGGCAGAA XII [CT]..ATG[ACT]

2995778,2995787,10,5' UTR

2995552,2995777,226,GT,START:Ends:2995787-2996380-2997900-,Old end=2997691

2993108,2995326,2219,AG,END:Starts:2993852-2995150-2995068-,Old start=2993108

2993108,2993109,0,3' UTR

Leaky:ID=NCLIV_063940 - 2 CCGTACGCGATGTGGCAGAA XII A..ATG
 2995768,2995787,20,5' UTR
 2995552,2995767,216,GT,START:Ends:2995787-2996380-2997900-,Old end=2997691
 2995267,2995326,60,AG,END:Starts:2993852-2995150-2995068-,Old start=2993108
 2993108,2995268,2159,3' UTR

#####

ID=NCLIV_063970 - 15 CGCCAAGGGATGAAGCAGCC
 3019556,3019813,258,END:Starts:3018656-3018639-3018658-
 3020163,3020231,69,EXACT,AG-GT
 3020516,3020605,90,EXACT,AG-GT
 3020748,3020925,178,EXACT,AG-GT
 3021254,3021402,149,EXACT,AG-GT
 3021892,3022014,123,EXACT,AG-GT
 3022398,3022924,527,START: end -111 AG-GT
 3022987,3023056,70,EXACT,AG-GT
 3023692,3023766,75,EXACT,AG-GT
 3024242,3024342,101,EXACT,AG-GT
 3024825,3024905,81,EXACT,AG-GT
 3025324,3025480,157,EXACT,AG-GT
 3025837,3026245,409,EXACT,AG-GT
 3026827,3026926,100
 3027402,3027501,100

>> RNA-Seq evidence = 13/15 (86.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_063970 - 15 CGCCAAGGGATGAAGCAGCC XII [CT]..ATG[ACT]
 3027580,3028501,922,5' UTR
 3027402,3027579,178,GT,,Old end=3027501 (-1000)
 3026827,3026926,100,INTERNAL,

3025837,3026245,409,INTERNAL,EXACT,AG-GT
3025324,3025480,157,INTERNAL,EXACT,AG-GT
3024825,3024905,81,INTERNAL,EXACT,AG-GT
3024242,3024342,101,INTERNAL,EXACT,AG-GT
3023692,3023766,75,INTERNAL,EXACT,AG-GT
3022987,3023056,70,INTERNAL,EXACT,AG-GT
3022398,3022924,527,INTERNAL,START: end -111 AG-GT
3021892,3022014,123,INTERNAL,EXACT,AG-GT
3021254,3021402,149,INTERNAL,EXACT,AG-GT
3020748,3020925,178,INTERNAL,EXACT,AG-GT
3020516,3020605,90,INTERNAL,EXACT,AG-GT
3020163,3020231,69,INTERNAL,EXACT,AG-GT
3019556,3019813,258,AG,END:Starts:3018656-3018639-3018658-,Old start=3019556
3018639,3019557,917,3' UTR

Leaky:ID=NCLIV_063970 - 15 CGCCAAGGGATGAAGCAGCC XII A..ATG

3027547,3028501,955,5' UTR
3027402,3027546,145,GT,,Old end=3027501 (-1000)
3026827,3026926,100,INTERNAL,
3025837,3026245,409,INTERNAL,EXACT,AG-GT
3025324,3025480,157,INTERNAL,EXACT,AG-GT
3024825,3024905,81,INTERNAL,EXACT,AG-GT
3024242,3024342,101,INTERNAL,EXACT,AG-GT
3023692,3023766,75,INTERNAL,EXACT,AG-GT
3022987,3023056,70,INTERNAL,EXACT,AG-GT
3022398,3022924,527,INTERNAL,START: end -111 AG-GT
3021892,3022014,123,INTERNAL,EXACT,AG-GT
3021254,3021402,149,INTERNAL,EXACT,AG-GT
3020748,3020925,178,INTERNAL,EXACT,AG-GT
3020516,3020605,90,INTERNAL,EXACT,AG-GT
3020163,3020231,69,INTERNAL,EXACT,AG-GT

3019556,3019813,258,AG,END:Starts:3018656-3018639-3018658-,Old start=3019556

3018639,3019557,917,3' UTR

#####

ID=NCLIV_064050 + 3 CACGAAGCTATGAGCCTCAC

3080315,3080720,406

3080910,3081316,407

3081807,3082667,861

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_064080 - 1 GTAATCTCTATGGCGTGCAC

3094996,3095325,330

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_064090 + 8 TCCACTGCGATGTGGACATC

3097416,3097633,218,END:Starts:3096682-3096557-3096787-

3098124,3098196,73,EXACT,AG-GT

3098801,3098881,81,EXACT,AG-GT

3099685,3099786,102,EXACT,AG-GT

3100450,3100546,97,EXACT,AG-GT

3100808,3100875,68,EXACT,AG-GT

3101402,3101494,93,EXACT,AG-GT

3101606,3101677,72,START:Ends:3102221-3102231-

>> RNA-Seq evidence = 8/8 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_064130 - 3 GAGGTAGCCATGTTGGCGCT
3125593,3126203,611,END:Starts:3125155-3125150-
3126646,3126915,270,START: end -53 GT
3127266,3127842,577

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_064160 - 6 GGGCACCAAATGGATAGAGC
3152343,3153128,786
3153917,3153993,77
3154735,3154822,88
3155230,3156900,1671
3157248,3157276,29
3158361,3159291,931

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_064270 - 2 CCCTGTCCTATGGCCGCGCC
3228159,3228292,134,END:Starts:3227629-3227395-
3228495,3230445,1951,START:Ends:3230615-3230609-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_064320 + 2 ATGGCCCAAATGGAGATTTC
3256023,3256156,134
3256426,3256819,394

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_064410 + 8 GTCAGGGCAATGATCTTGCC

3295716,3297398,1683

3298059,3298150,92

3298574,3298729,156,END: start -253 GT

3299200,3299356,157,START: end 712 AG

3300022,3300068,47,EXACT,AG-GT

3300454,3300588,135,EXACT,AG-GT

3300814,3300905,92,EXACT,AG-GT

3301548,3301570,23,START:Ends:3302334-3302338-3302494-

>> RNA-Seq evidence = 6/8 (75.0%)

>> Homology evidence = 237835788 0.0 98.5 83.52 2191 Toxoplasma gondii ME49 zinc
finger (C3HC4 RING finger) protein

#####

ID=NCLIV_064430 - 8 CGCCGCGCAATGTTTTTCAC

3308475,3308698,224

3309036,3309215,180

3309891,3310072,182

3310584,3310694,111

3311383,3311627,245

3313899,3314366,468

3315062,3315176,115

3315813,3315847,35

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_064490 - 15 CGCTTTCAGATGGCGCTGCA

3378628,3378768,141,END:Starts:3378257-3378446-3378332-

3379369,3379824,456,EXACT,AG-GT

3380625,3380898,274,EXACT,AG-GT

3381262,3381589,328,EXACT,AG-GT

3381930,3382047,118,EXACT,AG-GT

3382400,3382659,260,EXACT,AG-GT

3383100,3383373,274,EXACT,AG-GT

3383661,3383748,88,EXACT,AG-GT

3384184,3384263,80,EXACT,AG-GT

3384648,3384966,319,EXACT,AG-GT

3385536,3385849,314,EXACT,AG-GT

3386418,3386531,114,EXACT,AG-GT

3386897,3387277,381,START: end 246 AG-GT

3387783,3388276,494,EXACT,AG-GT

3388643,3390182,1540,START:Ends:3391982-3388923-3389748-

>> RNA-Seq evidence = 15/15 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_064520 - 15 CCACTTCTCATGGGGAAGTC

3423875,3424124,250

3424425,3424518,94,EXACT,AG-GT

3424843,3425328,486,EXACT,AG-GT

3425449,3425484,36,EXACT,AG-GT

3426243,3426485,243,EXACT,AG-GT

3426848,3426976,129,EXACT,AG-GT

3427769,3427912,144,END: start -402 AG-GT (ref:AC-GT)<< Possible error

3428366,3428956,591,EXACT,AG-GT

3429210,3429362,153,EXACT,AG-GT

3430351,3430609,259,EXACT,AG-GT

3430813,3430870,58,EXACT,AG-GT

3431246,3431658,413,START: end -15 GT

3431949,3432383,435

3432864,3433122,259

3433411,3433856,446

>> RNA-Seq evidence = 11/15 (73.3%)

>> Homology evidence = 237844892 0.0 143.1 81.92 699 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_064560 - 3 CCTTGCCAGTCTCTGGACGC

3448837,3449230,394

3451104,3451299,196

3451529,3451610,82

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_064750 + 3 CGTGCCTTCATGGGCAACAC

3583600,3585820,2221

3586293,3586472,180

3587047,3587147,101

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_064840 + 3 AACGTGCAGATGGCAACCGA

3662051,3662185,135,EXACT,ATG:AG-GT

3662725,3662895,171,EXACT,AG-GT

3663403,3663948,546,START:Ends:3664512-3664529-3664487-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_064850 + 6 CTCGACGCCATGTTTCCATT

3667645,3668034,390,END:Starts:3667685-3667475-3666934-

3668363,3669537,1175,EXACT,AG-GT

3670290,3670491,202,END: start -72 AG-GT

3671023,3671270,248,EXACT,AG-GT

3671445,3671907,463,EXACT,AG-GT

3672499,3672639,141,START:EXACT

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_064850 + 6 CTCGACGCCATGTTTCCATT XII G..ATGG

3667685,3667971,287,5' UTR

3667972,3668034,63,GT,END:Starts:3667685-3667475-3666934-,Old start=3667645

3668363,3669537,1175,INTERNAL,EXACT,AG-GT

3670290,3670491,202,INTERNAL,END: start -72 AG-GT

3671023,3671270,248,INTERNAL,EXACT,AG-GT

3671445,3671907,463,INTERNAL,EXACT,AG-GT

3672499,3672639,141,AG,START:EXACT,Old end=3672639 (-1000)

3672640,3673639,1000,3' UTR

#####

ID=NCLIV_064910 - 6 GGACACGCCATGCACTCTGC

3723571,3723810,240,END:Starts:3722957-3722986-3722917-

3724471,3724599,129,EXACT,AG-GT

3725190,3725337,148,EXACT,AG-GT

3725663,3725815,153,EXACT,AG-GT

3726426,3726720,295,START: end -7 GT

3727181,3727649,469

>> RNA-Seq evidence = 5/6 (83.3%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_064910 - 6 GGACACGCCATGCACTCTGC XII A..ATG

3728022,3728649,628,5' UTR

3727181,3728021,841,GT,,Old end=3727649 (-1000)

3726426,3726720,295,INTERNAL,START: end -7 GT

3725663,3725815,153,INTERNAL,EXACT,AG-GT

3725190,3725337,148,INTERNAL,EXACT,AG-GT

3724471,3724599,129,INTERNAL,EXACT,AG-GT

3723571,3723810,240,AG,END:Starts:3722957-3722986-3722917-,Old start=3723571

3722917,3723572,654,3' UTR

#####

ID=NCLIV_064920 + 1 TCTTCCTCGATGGAGGATCC

3729434,3731560,2127

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_064940 + 3 TCCCCGGCAATGCAGCCAGG

3737652,3738258,607

3738651,3738773,123

3739229,3741108,1880

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_064950 + 7 TTTTGTCAGATGGCAATCGC

3745836,3745933,98,EXACT,ATG:AG-GT

3746310,3746476,167,EXACT,AG-GT

3746790,3747381,592,EXACT,ATG:AG-GT

3747678,3747933,256,EXACT,AG-GT

3748382,3748464,83,EXACT,AG-GT

3748708,3748830,123,EXACT,AG-GT

3749117,3749315,199,START:Ends:3749173-3751220-3751223-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_065030 - 4 TTTCCCGCCATGCCGTCTGA

3811176,3811400,225,END:Starts:3810681-3810696-

3811596,3812825,1230,START: end 48 AG-GT

3813556,3813731,176,START: end -25 GT

3814001,3815228,1228

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_065040 - 5 TCCGACCAAATGGAGCTCAA

3820106,3821420,1315,END:Starts:3819407-3819510-3819456-

3821847,3821903,57,EXACT,AG-GT

3822512,3822577,66,EXACT,AG-GT

3822852,3822895,44,EXACT,AG-GT

3823549,3823581,33,START:Ends:3823901-3823899-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_065050 - 3 TCCCCGCCATGAGCACTGC

3825870,3826059,190,END:Starts:3824921-3824639-

3826743,3826835,93,OVER: start -6 and end 4 AG-GT (ref:AC-GT)<< Possible error

3827592,3828781,1190

>> RNA-Seq evidence = 1/3 (33.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_065060 - 6 TCCGCGCGATGCAGGGACA

3831435,3831907,473,END:Starts:3830698-3830801-3830836-

3832514,3832569,56,EXACT,AG-GT

3832719,3832784,66,EXACT,AG-GT

3833362,3833422,61,EXACT,AG-GT

3834036,3834151,116,END: start -288 AG-GT (ref:AC-GT)<< Possible error

3834361,3834680,320,START:Ends:3835258-3835251-3835308-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_065080 + 3 ACGCACGCCATGCCGGACGC

3843935,3844703,769,END:Starts:3840769-3843094-3842740-

3845398,3845558,161,EXACT,AG-GT

3845976,3846218,243,START:Ends:3860674-3860729-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_065090 + 1 ACTCGCCAGATGGGGCTGTT

3848454,3850541,2088,OVER:Ends:3860674-3860729-

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_065190 - 5 GCGAGAGAAATGATCTTTGG

3911662,3912448,787,END:Starts:3910588-3910579-

3912840,3912895,56,START: end -3 GT

3913148,3913308,161,END: start 5 AG

3913797,3913857,61,EXACT,AG-GT

3914512,3914808,297,START:Ends:3917260-3916047-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_065260 - 11 GTCTGAGAAATGATTGTCAT

3965329,3965483,155,END:Starts:3965450-3964459-

3965713,3965800,88

3966137,3968690,2554

3969005,3969052,48

3969467,3969519,53

3970004,3970064,61

3970390,3970607,218

3971271,3971351,81

3971647,3971693,47,EXACT,AG

3971979,3972133,155,EXACT,AG-GT

3972693,3972901,209,START:Ends:3974562-3972885-

>> RNA-Seq evidence = 4/11 (36.4%)

>> Homology evidence = NONE

#####

ID=NCLIV_065330 - 7 CGTCCACCAATGGACGAAAA

4015905,4017631,1727

4018182,4018348,167

4018646,4021132,2487,END: start 1548 AG

4021584,4021956,373,EXACT,GT

4022546,4022708,163

4023205,4025654,2450

4026142,4030450,4309

>> RNA-Seq evidence = 2/7 (28.6%)

>> Homology evidence = 237835616 0.0 106.1 82.52 664 Toxoplasma gondii ME49 ATPase

#####

ID=NCLIV_065350 + 10 CATTGCAATGACTAGGCA

4038647,4039047,401

4039604,4039832,229

4040337,4040615,279

4041110,4041125,16

4041443,4041561,119

4041924,4042123,200

4042458,4042637,180

4043286,4043355,70

4043755,4043851,97

4044528,4044640,113

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_065390 - 10 CTCACGGCAATGCCGAGCGC

4080315,4080398,84,END:EXACT
 4080940,4081250,311,EXACT,AG-GT
 4081737,4081829,93,EXACT,AG-GT
 4082244,4082385,142,EXACT,AG-GT
 4082617,4082836,220,END: start 147 AG-GC (ref:AC-GT)<< Possible error
 4083207,4083300,94,EXACT,AG-GT
 4083777,4084023,247,EXACT,AG-GT
 4084252,4084589,338,START: end 2 GT
 4085166,4085302,137
 4085794,4086200,407

>> RNA-Seq evidence = 8/10 (80.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_065420 + 6 AACTCCGACATGCCTCCTCA

4096185,4098035,1851,END:Starts:4094608-4097236-
 4098829,4098951,123,EXACT,AG-GT
 4099827,4100737,911,END: start 18 GT (ref:AG-GT)<< Possible error
 4101329,4101425,97,EXACT,AG-GT
 4101712,4101861,150,EXACT,AG-GT
 4102407,4102532,126,START:Ends:4102707-4102699-4102698-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_065420 + 6 AACTCCGACATGCCTCCTCA XII [CT]..ATG[ACT]

4097236,4097729,494,5' UTR
 4097730,4098035,306,GT,END:Starts:4094608-4097236-,Old start=4096185
 4098829,4098951,123,INTERNAL,EXACT,AG-GT
 4099827,4100737,911,INTERNAL,END: start 18 GT (ref:AG-GT)<< Possible error

4101329,4101425,97,INTERNAL,EXACT,AG-GT

4101712,4101861,150,INTERNAL,EXACT,AG-GT

4102407,4102532,126,AG,START:Ends:4102707-4102699-4102698-,Old end=4102532

4102533,4102707,175,3' UTR

Leaky:ID=NCLIV_065420 + 6 AACTCCGACATGCCTCCTCA XII ACCTATGG

4097236,4097801,566,5' UTR

4097802,4098035,234,GT,END:Starts:4094608-4097236-,Old start=4096185

4098829,4098951,123,INTERNAL,EXACT,AG-GT

4099827,4100737,911,INTERNAL,END: start 18 GT (ref:AG-GT)<< Possible error

4101329,4101425,97,INTERNAL,EXACT,AG-GT

4101712,4101861,150,INTERNAL,EXACT,AG-GT

4102407,4102532,126,AG,START:Ends:4102707-4102699-4102698-,Old end=4102532

4102533,4102707,175,3' UTR

#####

ID=NCLIV_065430 - 8 TCCGGCGCCATGTTCGTGGGC

4104009,4104209,201

4104548,4104690,143

4105017,4105199,183

4105538,4106848,1311

4107089,4107844,756

4108235,4108404,170

4108715,4108889,175

4109371,4109467,97

>> RNA-Seq evidence = NONE

>> Homology evidence = 237835918 0.0 135.1 83.67 2085 Toxoplasma gondii ME49
hypothetical protein

#####

ID=NCLIV_065460 - 13 ATGCGCCCCATGGACTCCCT

4121386,4124060,2675

4124574,4125086,513
4125335,4125408,74
4125945,4126100,156
4126392,4126458,67
4126923,4126975,53
4127233,4127402,170
4127688,4128166,479
4128772,4128868,97,END: start -16 AG
4129043,4129176,134,START: end 93 GT
4129749,4129793,45
4130237,4130584,348,END: start -429 AG
4130759,4131923,1165

>> RNA-Seq evidence = 3/13 (23.1%)

>> Homology evidence = NONE

#####

ID=NCLIV_065480 - 1 TTTCTCTGGATGGAAGCAAC
4142102,4142863,762

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_065490 - 7 CTGTGGCAGATGGCGCTGCG
4144704,4146134,1431
4146762,4146845,84
4147501,4147563,63
4147982,4148274,293
4148452,4148616,165
4149085,4149208,124
4149473,4149535,63

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_065720 + 5 TGGGAGGCAATGAGGGACGG

4341011,4341260,250

4341682,4341773,92

4342186,4342239,54

4342655,4344411,1757,END: start 495 GT

4344942,4345614,673,START:Ends:4345844-4347202-

>> RNA-Seq evidence = 2/5 (40.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_065880 - 1 CCGCCATCGATGGAATTTGT

4461265,4461831,567

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_066000 + 1 CCGTGATCCATGGCAACTGG

4591371,4596338,4968

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_066165 + 5 TTCAAGAAATGTTTCTGTG

4692888,4693149,262,END:EXACT

4693668,4693999,332,EXACT,AG-GT

4694560,4695610,1051,EXACT,AG-GT

4696343,4696558,216,END: start -72 AG-GT (ref:AG-GT)<< Possible error
4696901,4696953,53,START:Ends:4698799-4699178-4698472-

>> RNA-Seq evidence = 5/5 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_066180 - 4 CGACGCCGAATGGACAGGGG

4725168,4725242,75

4725886,4726086,201

4726552,4726698,147

4727104,4727496,393

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_066320 - 4 GCCGCCGCCATGCGCTTCA

4854300,4854347,48,END:Starts:4853892-4853076-

4854774,4855817,1044,EXACT,GT

4856183,4860036,3854,EXACT,AG

4860443,4863299,2857

>> RNA-Seq evidence = 3/4 (75.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_066330 + 9 ACCTCTCTGATGGAGGACAC

4866014,4867366,1353,END:Starts:4865799-4867157-

4867818,4868021,204,EXACT,AG-GT

4868453,4868547,95,START: end 300 AG-GT

4868734,4868847,114,END: start -281 AG-GT

4869376,4869549,174,START: end 488 AG-GT

4869959,4870037,79,END: start -583 AG-GT

4870317,4870394,78,EXACT,GT

4871008,4871413,406,EXACT,AG-GT

4871803,4872794,992,START:Ends:4880885-4881002-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_066480 + 1 AAGCGCTACATGGTTGCCCT

4971509,4976092,4584

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_066560 - 2 CCGTTTCCAATGGATTTCTT

5034658,5035245,588

5035730,5039770,4041

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_066580 - 7 TGCCGTCAGAAGCGTGAATA

5047939,5048707,769,END:Starts:5044269-5047264-5047235-

5049230,5049443,214,EXACT,AG-GT

5049978,5050101,124,EXACT,AG-GT

5050598,5050688,91,START: end -10 GT

5051318,5052596,1279,END: start 9 AG (ref:AC-GT)<< Possible error

5053163,5053366,204,EXACT,AG-GT

5054055,5054715,661,START:Ends:5055324-5055419-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_066580 - 7 TGCCGTCAGAAGCGTGAATA XII A..ATG

5054782,5055324,543,5' UTR

5054055,5054781,727,GT,START:Ends:5055324-5055419-,Old end=5054715

5053163,5053366,204,INTERNAL,EXACT,AG-GT

5051318,5052596,1279,INTERNAL,END: start 9 AG (ref:AC-GT)<< Possible error

5050598,5050688,91,INTERNAL,START: end -10 GT

5049978,5050101,124,INTERNAL,EXACT,AG-GT

5049230,5049443,214,INTERNAL,EXACT,AG-GT

5047939,5048707,769,AG,END:Starts:5044269-5047264-5047235-,Old start=5047939

5044269,5047940,3670,3' UTR

#####

ID=NCLIV_066610 - 5 CGGTCGGAGATGAAGGCCA

5066251,5066434,184

5066930,5067405,476

5067631,5067875,245

5068064,5068613,550

5069004,5072660,3657

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_066620 - 1 CCTATCCACATGGAGAAGCA

5076387,5077091,705

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_066650 + 1 TTCGACCTCATGGATCTCCC
5084797,5090205,5409

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_066690 + 9 AAAGACGAAATGTATTCGGA
5115621,5115711,91
5116391,5116850,460
5117101,5117829,729
5118039,5118386,348
5118960,5119128,169
5119488,5119647,160
5120019,5121895,1877,END: start 700 GT
5122250,5122372,123,EXACT,AG-GT
5122638,5122907,270,OVER:Ends:5123363-5123318-

>> RNA-Seq evidence = 2/9 (22.2%)

>> Homology evidence = NONE

#####

ID=NCLIV_066710 + 6 TGTGTCGTCATGCCGCGATC
5128170,5129140,971,END:Starts:5127502-5126589-5127559-
5129793,5130551,759,EXACT,AG-GT
5131227,5131317,91,START: end 486 AG-GT (ref:AG-GT)<< Possible error
5131647,5131803,157,END: start -420 AG-GT (ref:AG-GT)<< Possible error
5132313,5132398,86,EXACT,AG-GT
5132913,5132996,84,START:Ends:5136058-5135748-5136070-

>> RNA-Seq evidence = 6/6 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_066730 + 1 TCTCCGCAATGAAGCGACT
5140875,5141891,1017

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_066750 - 4 TTCGTCGAAATGAAGCTGTG
5154483,5155225,743
5155636,5155714,79
5156370,5156842,473
5157267,5157381,115

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_066810 + 3 GTCATCCCATGGCAGACGG
5195401,5195674,274,END:Starts:5193644-5195389-5195014-
5196184,5196317,134,EXACT,AG-GT
5196829,5197080,252,START:Ends:5197233-5197327-5197444-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_066850 + 1 TTCACGGAAATGAAGTCAAA
5221372,5222337,966

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_066860 - 2 TCATCAGAGATGTGTCAGTT
5223532,5223929,398,END:Starts:5220066-5222880-5222959-
5224337,5224913,577,OVER:Ends:5225318-5225417-5225471-

>> RNA-Seq evidence = 1/2 (50.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_067020 - 1 GTACTGCCCATGGCTTCAGG
5323188,5324210,1023

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_067050 - 3 CTATGCTCCATGGGGAAGCC
5337847,5338073,227,END:Starts:5337431-5337465-
5338420,5339163,744,START: end -440 GT
5339448,5340108,661

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_067120 + 8 GTTTTGCCAATGGCGCCTGC
5388849,5389647,799,END:Starts:5388157-5389143-
5390678,5391105,428
5391442,5391558,117
5391875,5392018,144
5392395,5392483,89
5392701,5392809,109
5393127,5393615,489
5394322,5395314,993

>> RNA-Seq evidence = 1/8 (12.5%)

>> Homology evidence = NONE

#####

ID=NCLIV_067170 + 3 CTTGGGCAGCCTATCCGTGG

5434838,5434970,133,END:Starts:5433786-5434030-5434586-

5435108,5436490,1383,EXACT,AG-GT

5436817,5436944,128,START:Ends:5437349-5437330-5437236-

>> RNA-Seq evidence = 3/3 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_067170 + 3 CTTGGGCAGCCTATCCGTGG XII [CT]..ATG[ACT]

5434586,5434663,78,5' UTR

5434664,5434970,307,GT,END:Starts:5433786-5434030-5434586-,Old start=5434838

5435108,5436490,1383,INTERNAL,EXACT,AG-GT

5436817,5436944,128,AG,START:Ends:5437349-5437330-5437236-,Old end=5436944

5436945,5437349,405,3' UTR

Leaky:ID=NCLIV_067170 + 3 CTTGGGCAGCCTATCCGTGG XII CGGTATGA

5434586,5434891,306,5' UTR

5434892,5434970,79,GT,END:Starts:5433786-5434030-5434586-,Old start=5434838

5435108,5436490,1383,INTERNAL,EXACT,AG-GT

5436817,5436944,128,AG,START:Ends:5437349-5437330-5437236-,Old end=5436944

5436945,5437349,405,3' UTR

#####

ID=NCLIV_067220 + 4 CCCACTGAAATGAATCGCGA

5477899,5478087,189,END:Starts:5476850-5476854-5476856-

5478679,5478793,115,EXACT,AG-GT

5479477,5479584,108,EXACT,AG-GT

5479980,5480791,812,START:EXACT

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_067220 + 4 CCCACTGAAATGAATCGCGA XII G..ATGG

5476856,5477823,968,5' UTR

5477824,5478087,264,GT,END:Starts:5476850-5476854-5476856-,Old start=5477899

5478679,5478793,115,INTERNAL,EXACT,AG-GT

5479477,5479584,108,INTERNAL,EXACT,AG-GT

5479980,5480791,812,AG,START:EXACT,Old end=5480791 (-1000)

5480792,5481791,1000,3' UTR

#####

ID=NCLIV_067260 - 5 TTCTCGCCTATGGCTAGCTT

5500565,5500934,370

5501225,5501364,140

5501726,5501907,182

5502417,5502910,494

5503511,5504016,506

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_067310 - 11 GCTTAGCTGATGGCAATGAA

5527004,5527072,69

5527139,5527178,40

5527286,5527319,34

5527373,5527422,50

5527478,5527495,18

5527557,5527596,40

5527656,5527716,61

5527773,5527832,60

5527891,5527953,63

5528013,5528022,10

5528087,5528271,185

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_067340 - 3 GAAGCGTCAATGGATCCTCT

5538784,5539087,304

5539640,5540575,936

5541158,5543829,2672

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_067380 - 4 TTAGTTCAAATGGCTAGTAA

5581517,5581585,69,END:EXACT

5582112,5582175,64,EXACT,AG-GT

5582523,5583996,1474,EXACT,AG-GT

5584554,5585088,535,START:Ends:5585618-5585572-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_067490 + 7 TATTTCTGTATGGCAATTCA

5650192,5650324,133,END:EXACT

5650653,5650751,99,EXACT,AG-GT

5650861,5651043,183,EXACT,AG-GT

5651352,5651536,185,EXACT,AG-GT

5651753,5651855,103,EXACT,AG-GT

5652154,5652381,228,EXACT,TAG|TGAI|TAA:AG-GT

5652842,5652915,74,START:Ends:5653383-5652853-5653472-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_067490 + 7 TATTTCTGTATGGCAATTCA XII A..ATG

5649192,5650176,985,5' UTR

5650177,5650324,148,GT,END:EXACT,Old start=5650192 (+ 1000)

5650653,5650751,99,INTERNAL,EXACT,AG-GT

5650861,5651043,183,INTERNAL,EXACT,AG-GT

5651352,5651536,185,INTERNAL,EXACT,AG-GT

5651753,5651855,103,INTERNAL,EXACT,AG-GT

5652154,5652381,228,INTERNAL,EXACT,TAG|TGAI|TAA:AG-GT

5652842,5652915,74,AG,START:Ends:5653383-5652853-5653472-,Old end=5652915

5652916,5653472,557,3' UTR

#####

ID=NCLIV_067520 + 7 TCCTTCCTCATGGGCTTCTT

5675927,5676999,1073,END:Starts:5675687-5675704-5676951-

5677332,5677511,180,EXACT,AG-GT

5677887,5677979,93,EXACT,AG-GT

5678386,5678494,109,EXACT,AG-GT

5679005,5679159,155,EXACT,AG-GT

5679656,5679821,166,END: start -24 AG-GT (ref:AG-GT)<< Possible error

5680273,5680395,123,START:Ends:5682235-5682324-5682464-

>> RNA-Seq evidence = 7/7 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_067780 - 2 CCCGGGCGAATGGAGATCCC
 5804323,5804905,583,END:Starts:5804330-5804349-5804333-
 5805229,5806397,1169,START:Ends:5806901-5805370-5807423-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_068090 + 4 CGTCCAGAGATGAGGCTTGC
 6014281,6015893,1613,END:Starts:6013165-6013150-6013154-
 6016599,6016826,228,EXACT,AG-GT
 6017282,6017471,190,EXACT,AG-GT
 6017853,6018140,288,START:Ends:6018044-6018077-6018030-

>> RNA-Seq evidence = 4/4 (100.0%)

>> Homology evidence = 237842396 0.0 58.2 78.35 723 Toxoplasma gondii ME49
 thrombospondin type 1 domain-containing protein

#####

ID=NCLIV_068110 + 3 TGTGCGGGAATGCGCACCAG
 6023132,6024622,1491,END:Starts:6021264-6021100-6023856-
 6024835,6025100,266,EXACT,AG
 6025608,6031452,5845

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

>> Alternative start codon

ID=NCLIV_068110 + 3 TGTGCGGGAATGCGCACCAG XII [CT]..ATG[ACT]
 6023856,6024073,218,5' UTR
 6024074,6024622,549,GT,END:Starts:6021264-6021100-6023856-,Old start=6023132
 6024835,6025100,266,INTERNAL,EXACT,AG
 6025608,6031452,5845,AG,,Old end=6031452 (-1000)

6031453,6032452,1000,3' UTR

Leaky:ID=NCLIV_068110 + 3 TGTGCGGGAATGCGCACCAG XII A..ATG

6023856,6024337,482,5' UTR

6024338,6024622,285,GT,END:Starts:6021264-6021100-6023856-,Old start=6023132

6024835,6025100,266,INTERNAL,EXACT,AG

6025608,6031452,5845,AG,,Old end=6031452 (-1000)

6031453,6032452,1000,3' UTR

#####

ID=NCLIV_068120 - 1 GGAGCCGAGATGAGCGATCG

6034388,6035140,753

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_068150 + 10 GAATCTCCCATGGCGCCTGT

6051637,6051877,241,END:Starts:6048941-6051034-6051053-

6052548,6053113,566,EXACT,AG-GT

6053409,6053564,156,EXACT,AG-GT

6053745,6053850,106,EXACT,AG-GT

6054263,6054363,101,EXACT,AG-GT

6054655,6054852,198,START: end 4 AG-GT

6055108,6055257,150,EXACT,AG-GT

6055747,6056194,448,EXACT,AG-GT

6056696,6056807,112,EXACT,AG-GT

6057599,6057713,115,START:Ends:6059637-6059469-6059711-

>> RNA-Seq evidence = 10/10 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_068170 + 1 TTACTCTCCATGGAAATCTA

6067245,6070547,3303

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_068190 - 9 CTCGCCGCGATGCCCAACCA

6082205,6083755,1551,END:Starts:6081398-6081773-6079214-

6084230,6084364,135,EXACT,AG-GT

6084831,6084914,84,EXACT,AG-GT

6085280,6085468,189,EXACT,AG-GT

6085738,6085929,192,EXACT,AG-GT

6086409,6086618,210,EXACT,AG-GT

6086953,6087220,268,EXACT,AG-GT

6087432,6088252,821,START: end -568 AG-GT

6088632,6089261,630,START:Starts:6088632-

>> RNA-Seq evidence = 9/9 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_068210 + 12 TTCGTCTCGATGGCACTCTA

6107319,6107589,271,END:Starts:6106481-6106480-

6108122,6108207,86,EXACT,AG-GT

6108515,6108683,169,EXACT,AG-GT

6108954,6109112,159,EXACT,AG-GT

6109419,6109619,201,EXACT,AG-GT

6110068,6110202,135,EXACT,AG-GT

6110386,6110557,172,EXACT,AG-GT

6110951,6111049,99,EXACT,AG-GT

6111418,6111564,147,EXACT,AG-GT

6111981,6112131,151,EXACT,AG-GT

6112598,6112716,119,EXACT,AG-GT

6112986,6113175,190,START:Ends:6113242-6113289-6113154-

>> RNA-Seq evidence = 12/12 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_068220 - 3 GCCTCCGAAATGTTTCCAGT

6115040,6117431,2392

6118222,6118322,101,EXACT,AG-GT

6118669,6121197,2529,START:Ends:6123326-6121292-6122329-

>> RNA-Seq evidence = 2/3 (66.7%)

>> Homology evidence = NONE

#####

ID=NCLIV_068270 - 2 AGCGGCTCGATGGCCCAGCG

6146934,6147216,283,END:Starts:6146215-6146302-6146334-

6147641,6147891,251,START:Ends:6148007-6148002-6148019-

>> RNA-Seq evidence = 2/2 (100.0%)

>> Homology evidence = NONE

#####

ID=NCLIV_068320 + 2 CACGCCGACATGAAGGCGTT

6178959,6180273,1315

6180865,6182525,1661

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_068390 - 2 CACTCCGACATGCGTTGCCGA

6230181,6234737,4557

6235239,6236060,822

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_068410 - 5 CGCGAGGGAATGAGAGGTGA

6243091,6243427,337

6243759,6244816,1058

6245528,6245869,342

6246610,6247292,683

6247683,6249810,2128

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_068420 + 2 ACACGGGGAATGTTTCATCAC

6253229,6253444,216

6254096,6255304,1209

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_068470 - 6 GGACAGGGAATGCTGTCTCT

6291770,6292106,337

6292438,6293492,1055

6294204,6294545,342

6295322,6296004,683

6296395,6297314,920

6297413,6298005,593

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_068490 - 2 CTTTAGGAAATGACGGCCAG

6306538,6306998,461

6307211,6308777,1567

>> RNA-Seq evidence = NONE

>> Homology evidence = NONE

#####

ID=NCLIV_068540 - 6 CCTTCCCCCATGGCGAACAG

6344512,6346962,2451,END:Starts:6342217-6346364-

6347360,6347548,189,START: end 147 AG-GT (ref:AC-GT)<< Possible error

6348040,6348267,228,START: end -24 GT

6348866,6349113,248,END: start -2 AG (ref:AC-GT)<< Possible error

6349599,6350229,631,START: end 2 GT

6350455,6351357,903

>> RNA-Seq evidence = 5/6 (83.3%)

>> Homology evidence = NONE

#####

ID=NCLIV_068560 - 16 GTCTGCCTCATGGCTACGGG

6363435,6363651,217,END:Starts:6363109-6362906-6363036-

6364177,6364691,515,EXACT,AG-GT

6364951,6365370,420,EXACT,AG-GT

6366118,6366429,312,EXACT,AG-GT

6367317,6367433,117,EXACT,AG-GT

6368011,6368121,111,EXACT,AG-GT

6369051,6369650,600,EXACT,AG-GT

6369866,6370550,685,START: end -63 AG-GT

6371124,6371656,533,EXACT,AG-GT
6372342,6372739,398,EXACT,AG-GT
6373415,6373542,128,EXACT,AG-GT
6374147,6375408,1262
6375864,6375960,97
6376513,6376758,246
6377077,6377535,459,END: start 17 AG
6377776,6379340,1565,START:Ends:6386422-6386299-

>> RNA-Seq evidence = 13/16 (81.3%)

>> Homology evidence = NONE

4. PART III – Summary reports for the comparison analysis

A. SUMMARY of RNA-Seq evidence for each chromosome

Columns:1=chromosome #:2=number of genes with more than 50% RNA-Seq evidence:3=number of genes with noncompliant ATG context

Ia: 21/50
Ib: 15/31
II: 21/44
III: 19/45
IV: 26/50
V: 30/64
VI: 36/74
VIIa: 49/82
VIIb: 69/131
VIII: 83/167
IX: 71/130
X: 71/154
XI: 69/130
XII: 69/151

#####

B. SUMMARY of evidence for each gene

Columns:1=RNA-Seq (>50%) #:2=Homology (not including hypothetical proteins or putitive) :3=Alternative start codon

#chromosome Ia
NCLIV_000030,0,0,0
NCLIV_000190,0,0,0
NCLIV_000200,0,0,0
NCLIV_000210,0,0,0

NCLIV_000230,0,0,0
NCLIV_000280,1,0,0
NCLIV_000290,1,0,1
NCLIV_000320,0,0,0
NCLIV_000330,0,0,0
NCLIV_000420,1,0,0
NCLIV_000450,0,0,0
NCLIV_000490,1,0,1
NCLIV_000630,0,0,0
NCLIV_000640,1,0,0
NCLIV_000690,1,0,0
NCLIV_000710,1,0,0
NCLIV_000711,0,0,0
NCLIV_000770,0,0,0
NCLIV_000800,1,0,0
NCLIV_000810,0,0,0
NCLIV_000820,0,0,0
NCLIV_000850,0,0,0
NCLIV_001090,1,0,0
NCLIV_001150,1,0,1
NCLIV_001160,0,0,0
NCLIV_001190,0,0,0
NCLIV_001200,1,0,0
NCLIV_001210,1,0,0
NCLIV_001330,0,0,0
NCLIV_001400,0,0,0
NCLIV_001460,0,0,0
NCLIV_001650,1,0,0
NCLIV_001660,0,0,0
NCLIV_001740,0,0,0
NCLIV_001760,0,0,0
NCLIV_001770,1,0,0
NCLIV_001790,1,1,0
NCLIV_001840,0,0,0
NCLIV_001850,1,0,0
NCLIV_001880,1,0,0
NCLIV_001920,1,0,0
NCLIV_002000,1,0,0
NCLIV_002030,0,0,0
NCLIV_002040,0,0,0
NCLIV_002070,1,0,1
NCLIV_002110,0,0,0
NCLIV_002115,0,0,0
NCLIV_002180,0,0,0
NCLIV_002350,0,0,0
NCLIV_002370,1,0,0

#chromosome Ib

NCLIV_002480,1,0,0
NCLIV_002580,0,0,0
NCLIV_002790,0,0,0
NCLIV_002810,1,0,0
NCLIV_002840,1,0,0
NCLIV_002860,1,0,1
NCLIV_002930,0,0,0
NCLIV_003010,0,0,0
NCLIV_003020,1,0,0
NCLIV_003150,0,0,0
NCLIV_003170,1,0,1
NCLIV_003180,0,0,0
NCLIV_003340,0,0,0

NCLIV_003350,0,1,0
NCLIV_003410,0,1,0
NCLIV_003460,1,1,1
NCLIV_003580,0,0,0
NCLIV_003600,1,0,0
NCLIV_003620,1,0,0
NCLIV_003770,0,0,0
NCLIV_003850,0,0,0
NCLIV_003860,0,0,0
NCLIV_003980,1,0,0
NCLIV_004090,1,0,0
NCLIV_004280,1,0,1
NCLIV_004300,1,0,0
NCLIV_004310,1,0,0
NCLIV_004432,0,0,0
NCLIV_004471,0,0,0
NCLIV_004490,1,1,0
NCLIV_004590,0,0,0
#chromosome II
NCLIV_004630,1,0,0
NCLIV_004770,1,0,0
NCLIV_004820,1,0,0
NCLIV_004840,1,0,0
NCLIV_004870,1,0,1
NCLIV_005100,0,0,0
NCLIV_005120,1,0,0
NCLIV_005130,0,0,0
NCLIV_005280,1,0,0
NCLIV_005300,1,0,0
NCLIV_005340,0,0,0
NCLIV_005440,1,0,0
NCLIV_005550,1,0,1
NCLIV_005610,1,0,1
NCLIV_005640,0,0,0
NCLIV_005650,0,0,0
NCLIV_005660,0,0,0
NCLIV_005680,0,0,0
NCLIV_005720,0,0,0
NCLIV_005850,0,0,0
NCLIV_005920,0,0,0
NCLIV_006020,1,0,1
NCLIV_006040,0,0,0
NCLIV_006100,1,0,0
NCLIV_006140,1,0,0
NCLIV_006190,0,0,0
NCLIV_006210,1,0,0
NCLIV_006280,1,0,1
NCLIV_006330,0,0,0
NCLIV_006340,1,0,0
NCLIV_006400,1,0,1
NCLIV_006410,0,0,0
NCLIV_006520,1,0,0
NCLIV_006590,0,0,0
NCLIV_006610,0,0,0
NCLIV_006650,0,0,0
NCLIV_006670,0,0,0
NCLIV_006690,0,0,0
NCLIV_006760,0,0,0
NCLIV_006820,0,0,0
NCLIV_006840,0,0,0

NCLIV_006850,1,0,0
NCLIV_006870,0,0,0
NCLIV_006880,1,0,0
#chromosome III
NCLIV_006930,1,0,0
NCLIV_006940,0,0,0
NCLIV_006960,1,0,0
NCLIV_007090,1,0,0
NCLIV_007100,1,0,1
NCLIV_007105,0,0,0
NCLIV_007160,0,0,0
NCLIV_007220,1,0,0
NCLIV_007270,1,0,0
NCLIV_007410,0,0,0
NCLIV_007570,0,0,0
NCLIV_007600,0,0,0
NCLIV_007610,1,0,1
NCLIV_007620,1,0,1
NCLIV_007720,0,0,0
NCLIV_007740,0,0,0
NCLIV_007750,1,0,0
NCLIV_007820,0,0,0
NCLIV_007970,0,0,0
NCLIV_008000,0,0,0
NCLIV_008010,1,0,1
NCLIV_008040,0,0,0
NCLIV_008050,0,0,0
NCLIV_008140,0,0,0
NCLIV_008150,1,0,0
NCLIV_008200,0,0,0
NCLIV_008260,1,0,0
NCLIV_008360,0,0,0
NCLIV_008440,0,0,0
NCLIV_008600,0,0,0
NCLIV_008670,1,0,0
NCLIV_008750,1,0,1
NCLIV_008760,1,0,0
NCLIV_008870,0,0,0
NCLIV_008960,1,1,0
NCLIV_008980,1,0,0
NCLIV_009000,0,0,0
NCLIV_009050,0,0,0
NCLIV_009110,0,0,0
NCLIV_009220,1,0,0
NCLIV_009260,0,0,0
NCLIV_009320,0,0,0
NCLIV_009400,0,0,0
NCLIV_009480,0,0,0
NCLIV_009490,1,0,1
#chromosome IV
NCLIV_009530,0,0,0
NCLIV_009590,1,0,0
NCLIV_009650,1,0,0
NCLIV_009660,1,0,1
NCLIV_009690,1,0,0
NCLIV_009810,1,0,0
NCLIV_009820,1,0,0
NCLIV_010030,0,0,0
NCLIV_010060,0,0,0
NCLIV_010070,0,0,0

NCLIV_010170,0,0,0
NCLIV_010190,1,0,0
NCLIV_010510,1,0,1
NCLIV_010530,0,0,0
NCLIV_010650,1,0,0
NCLIV_010741,0,0,0
NCLIV_010790,0,0,0
NCLIV_010950,1,0,0
NCLIV_011020,0,0,0
NCLIV_011050,0,0,0
NCLIV_011100,0,0,0
NCLIV_011200,1,0,0
NCLIV_011210,1,0,0
NCLIV_011240,0,0,0
NCLIV_011305,0,0,0
NCLIV_011310,0,0,0
NCLIV_011400,1,0,1
NCLIV_011420,1,1,0
NCLIV_011460,1,0,1
NCLIV_011500,0,0,0
NCLIV_011580,1,0,1
NCLIV_011590,1,0,0
NCLIV_011600,0,0,0
NCLIV_011650,1,0,1
NCLIV_011740,1,0,1
NCLIV_011750,1,0,0
NCLIV_011760,1,0,0
NCLIV_011870,1,0,0
NCLIV_011930,1,0,0
NCLIV_012010,0,0,0
NCLIV_012020,0,0,0
NCLIV_012060,0,0,0
NCLIV_012070,1,0,1
NCLIV_012080,0,0,0
NCLIV_012110,0,0,0
NCLIV_012150,1,0,1
NCLIV_012180,1,0,0
NCLIV_012190,0,0,0
NCLIV_012200,0,0,0
NCLIV_012210,0,0,0
#chromosome V
NCLIV_012260,0,0,0
NCLIV_012300,1,0,0
NCLIV_012320,1,0,0
NCLIV_012360,1,0,1
NCLIV_012430,1,0,0
NCLIV_012450,0,0,0
NCLIV_012470,1,0,0
NCLIV_012480,0,0,0
NCLIV_012680,0,0,0
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NCLIV_012730,0,0,0
NCLIV_012740,0,0,0
NCLIV_012820,0,0,0
NCLIV_012850,0,0,0
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NCLIV_013010,0,0,0
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NCLIV_013030,1,0,0

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NCLIV_013290,1,0,0
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NCLIV_013310,0,1,0
NCLIV_013350,1,0,1
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NCLIV_013450,0,0,0
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NCLIV_013980,0,0,0
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NCLIV_014190,1,0,0
NCLIV_014260,1,0,0
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NCLIV_014460,1,0,0
NCLIV_014480,0,0,0
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NCLIV_014560,0,0,0
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NCLIV_014980,1,0,0
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NCLIV_015040,1,0,0
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NCLIV_015190,1,0,0
NCLIV_015230,0,0,0
NCLIV_015250,0,0,0
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NCLIV_015360,0,0,0
NCLIV_015370,0,0,0
#chromosome VI
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NCLIV_015780,1,0,0
NCLIV_015850,1,0,0
NCLIV_015890,0,0,0
NCLIV_015930,1,0,1
NCLIV_015940,0,0,0
NCLIV_015980,1,0,0
NCLIV_016100,0,0,0
NCLIV_016110,1,0,1
NCLIV_016250,1,0,0
NCLIV_016270,0,0,0

NCLIV_016290,0,0,0
NCLIV_016380,1,0,1
NCLIV_016400,0,0,0
NCLIV_016500,1,0,1
NCLIV_016650,0,0,0
NCLIV_016770,1,0,0
NCLIV_016800,1,1,1
NCLIV_016810,0,0,0
NCLIV_016860,1,0,0
NCLIV_016870,1,0,0
NCLIV_016910,1,0,1
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NCLIV_017130,0,0,0
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NCLIV_017220,0,0,0
NCLIV_017270,1,0,0
NCLIV_017330,0,0,0
NCLIV_017340,0,0,0
NCLIV_017460,1,0,1
NCLIV_017490,1,0,0
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NCLIV_017520,0,0,0
NCLIV_017590,1,1,0
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NCLIV_017650,1,0,0
NCLIV_017740,0,0,0
NCLIV_017760,0,0,0
NCLIV_017790,1,0,1
NCLIV_017870,1,0,0
NCLIV_017990,1,0,1
NCLIV_018010,1,1,0
NCLIV_018050,1,0,0
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NCLIV_018270,0,0,0
NCLIV_018280,0,0,0
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NCLIV_018380,0,0,0
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NCLIV_018510,0,0,0
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NCLIV_018580,0,0,0
NCLIV_018590,1,0,0
NCLIV_018630,0,0,0
NCLIV_018640,0,0,0
NCLIV_018700,0,0,0
NCLIV_018730,0,0,0
NCLIV_018780,0,0,0
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NCLIV_018960,0,0,0
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NCLIV_019140,0,0,0
NCLIV_019150,1,0,0
NCLIV_019210,1,0,0
NCLIV_019260,0,0,0
NCLIV_019290,0,0,0
NCLIV_019330,1,0,1

#chromosome VIIa

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NCLIV_019770,1,0,1
NCLIV_019790,0,0,0
NCLIV_019820,1,0,1
NCLIV_019850,1,0,0
NCLIV_019860,1,0,0
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NCLIV_019990,1,0,0
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NCLIV_020060,0,0,0
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NCLIV_020530,1,0,0
NCLIV_020540,0,0,0
NCLIV_020560,0,0,0
NCLIV_020600,1,0,0
NCLIV_0207,1,0,0
NCLIV_020750,0,0,0
NCLIV_020800,0,0,0
NCLIV_020890,0,0,0
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NCLIV_021010,1,0,0
NCLIV_021230,1,1,1
NCLIV_021405,1,0,1
NCLIV_021530,0,0,0
NCLIV_021550,1,0,1
NCLIV_021610,0,0,0
NCLIV_021650,1,0,0
NCLIV_021700,0,0,0
NCLIV_021710,0,0,0
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NCLIV_022020,1,0,1
NCLIV_022050,1,0,0
NCLIV_022100,1,0,0
NCLIV_022130,0,0,0
NCLIV_022150,1,0,0
NCLIV_022260,1,0,0
NCLIV_022350,1,0,0
NCLIV_022390,1,0,0
NCLIV_0224,1,0,0
NCLIV_022410,0,0,0
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NCLIV_022580,1,0,1
NCLIV_022610,1,0,0
NCLIV_022630,0,0,0
NCLIV_022690,1,0,1
NCLIV_022760,0,0,0
NCLIV_022790,0,0,0
NCLIV_022810,0,0,0
NCLIV_022830,1,0,0
NCLIV_022870,0,0,0

NCLIV_022890,1,1,1
NCLIV_022920,1,0,0
NCLIV_022930,1,0,0
NCLIV_022940,0,0,0
NCLIV_022960,0,0,0
NCLIV_022980,1,0,0
NCLIV_023090,1,0,0
NCLIV_023100,1,0,0
NCLIV_023170,1,0,1
NCLIV_023180,0,0,0
NCLIV_023200,1,0,0
NCLIV_023250,1,0,1
NCLIV_023350,0,0,0
NCLIV_023500,0,0,0
NCLIV_023510,1,0,0
NCLIV_023540,1,0,1
NCLIV_023560,1,0,0
NCLIV_023580,0,0,0
NCLIV_023600,0,0,0
NCLIV_023660,0,0,0
NCLIV_023700,1,0,0
NCLIV_023750,0,0,0
NCLIV_023830,1,0,0
#chromosome VIIb
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NCLIV_023920,1,1,0
NCLIV_023930,0,0,0
NCLIV_024010,1,0,0
NCLIV_024040,1,0,0
NCLIV_024060,0,0,0
NCLIV_024130,0,1,0
NCLIV_024160,0,0,0
NCLIV_024170,0,0,0
NCLIV_024200,0,0,0
NCLIV_024210,1,0,0
NCLIV_024310,0,0,0
NCLIV_024330,1,0,0
NCLIV_024360,1,0,0
NCLIV_0245,0,0,0
NCLIV_024540,1,0,0
NCLIV_024580,0,0,0
NCLIV_024590,1,0,1
NCLIV_024650,1,0,0
NCLIV_024680,1,0,0
NCLIV_024690,0,0,0
NCLIV_024710,0,0,0
NCLIV_024730,0,0,0
NCLIV_024770,1,0,0
NCLIV_024860,1,0,0
NCLIV_024930,1,0,0
NCLIV_024980,0,0,0
NCLIV_024990,1,0,0
NCLIV_025010,1,0,0
NCLIV_025181,0,0,0
NCLIV_025200,0,0,0
NCLIV_025230,0,0,0
NCLIV_025260,0,0,0
NCLIV_0253,0,0,0
NCLIV_025320,1,0,0
NCLIV_025500,1,0,0

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NCLIV_025800,0,0,0
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NCLIV_025880,1,0,0
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NCLIV_025950,0,0,0
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NCLIV_026060,0,0,0
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NCLIV_026200,1,0,0
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NCLIV_026330,0,0,0
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NCLIV_026590,0,0,0
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NCLIV_026670,1,0,0
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NCLIV_026750,1,0,0
NCLIV_026780,0,0,0
NCLIV_026790,0,0,0
NCLIV_026880,0,0,0
NCLIV_026900,0,0,0
NCLIV_026910,1,1,0
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NCLIV_027150,1,0,0
NCLIV_027190,0,0,0
NCLIV_027220,1,0,0
NCLIV_027250,1,0,0
NCLIV_027460,0,0,0
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NCLIV_027670,0,0,0
NCLIV_027680,0,0,0
NCLIV_027690,0,0,0
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NCLIV_027710,0,0,0
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NCLIV_027750,1,0,0
NCLIV_027780,1,0,0
NCLIV_027840,0,0,0
NCLIV_027860,1,0,0
NCLIV_027890,1,0,0
NCLIV_027950,1,0,1
NCLIV_028080,0,0,0
NCLIV_028110,1,0,1
NCLIV_028140,1,0,0
NCLIV_028170,0,0,0
NCLIV_028260,0,0,0
NCLIV_028290,0,0,0

NCLIV_028440,0,0,0
NCLIV_028450,0,0,0
NCLIV_028460,0,0,0
NCLIV_028550,1,0,0
NCLIV_028640,0,0,0
NCLIV_028650,1,0,0
NCLIV_028720,1,0,0
NCLIV_028770,0,0,0
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NCLIV_028990,1,0,0
NCLIV_029050,0,0,0
NCLIV_029060,1,0,0
NCLIV_029110,0,0,0
NCLIV_029270,1,0,1
NCLIV_029280,0,0,0
NCLIV_029290,1,1,0
NCLIV_029330,1,0,0
NCLIV_029460,1,0,0
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NCLIV_029550,1,0,0
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NCLIV_029620,1,0,1
NCLIV_029640,1,0,0
NCLIV_029650,1,0,0
NCLIV_029670,0,0,0
NCLIV_029690,1,0,0
NCLIV_029780,1,0,0
NCLIV_029870,1,0,0
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NCLIV_029930,1,0,0
NCLIV_029940,1,0,0
#chromosome VIII
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NCLIV_030180,0,0,0
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NCLIV_030350,1,0,1
NCLIV_030360,0,0,0
NCLIV_030450,1,0,0
NCLIV_030570,0,0,0
NCLIV_030580,1,0,1
NCLIV_030620,1,0,1
NCLIV_030670,0,0,0
NCLIV_030710,1,0,0
NCLIV_030730,0,0,0
NCLIV_030760,1,0,1
NCLIV_030880,1,0,0
NCLIV_030980,0,0,0
NCLIV_031050,0,0,0
NCLIV_031080,1,0,0
NCLIV_031110,0,0,0
NCLIV_031120,1,0,0
NCLIV_031130,0,0,0
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NCLIV_031180,1,0,1
NCLIV_031220,0,0,0

NCLIV_0313,1,0,1
NCLIV_031320,1,0,1
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NCLIV_031460,0,0,0
NCLIV_031470,0,0,0
NCLIV_031480,1,0,0
NCLIV_031540,0,0,0
NCLIV_031550,0,0,0
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NCLIV_031640,1,0,0
NCLIV_031700,1,0,0
NCLIV_031710,1,0,1
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NCLIV_031840,0,0,0
NCLIV_031870,0,0,0
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NCLIV_032230,1,0,0
NCLIV_032280,0,0,0
NCLIV_032310,1,0,0
NCLIV_032350,1,0,0
NCLIV_032470,1,0,0
NCLIV_032500,0,0,0
NCLIV_032540,0,0,0
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NCLIV_032650,1,0,1
NCLIV_032730,1,0,1
NCLIV_032780,1,0,0
NCLIV_032850,0,0,0
NCLIV_032970,1,0,0
NCLIV_033080,0,0,0
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NCLIV_033440,0,0,0
NCLIV_033460,0,0,0
NCLIV_033530,0,0,0
NCLIV_033570,0,0,0
NCLIV_033640,0,0,0
NCLIV_033660,0,0,0
NCLIV_033680,1,0,1
NCLIV_033690,1,0,0
NCLIV_0337,0,0,0
NCLIV_033800,0,0,0
NCLIV_033820,1,1,1
NCLIV_033860,0,0,0
NCLIV_033870,0,0,0
NCLIV_033900,1,0,0
NCLIV_033910,0,0,0
NCLIV_033920,1,0,0
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NCLIV_034460,1,0,0
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NCLIV_034860,0,0,0
NCLIV_034920,1,0,1
NCLIV_034960,1,0,0
NCLIV_035020,0,0,0
NCLIV_035060,0,0,0
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NCLIV_035200,1,0,0
NCLIV_035240,1,0,1
NCLIV_035340,1,0,0
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NCLIV_035450,0,0,0
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NCLIV_035550,0,0,0
NCLIV_035660,0,1,0
NCLIV_035720,1,0,0
NCLIV_035750,0,0,0
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NCLIV_035840,1,0,1
NCLIV_035890,0,0,0
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NCLIV_035930,0,0,0
NCLIV_035980,0,0,0
NCLIV_036010,1,0,0
NCLIV_036050,0,0,0
NCLIV_036070,1,0,0
NCLIV_036080,1,0,0
NCLIV_036090,0,0,0
NCLIV_036370,0,0,0
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NCLIV_036550,0,0,0
NCLIV_036560,0,0,0
NCLIV_036570,1,0,1
NCLIV_036600,0,0,0
NCLIV_036620,0,0,0
NCLIV_036650,0,0,0
NCLIV_0367,0,0,0
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NCLIV_036730,0,0,0
NCLIV_036790,0,0,0
NCLIV_036820,1,0,0
NCLIV_036880,0,0,0
NCLIV_036900,1,0,0
NCLIV_036920,0,0,0
NCLIV_036940,1,0,1
NCLIV_037010,0,0,0

NCLIV_037020,1,0,0
NCLIV_037030,0,0,0
NCLIV_037050,0,0,0
NCLIV_037190,1,0,0
NCLIV_037200,1,1,1
NCLIV_037350,1,1,1
NCLIV_037390,1,0,0
NCLIV_037440,1,0,1
NCLIV_037450,1,0,0
NCLIV_037580,1,0,0
NCLIV_0376,0,0,0
NCLIV_037610,1,0,0
NCLIV_037720,1,0,1
NCLIV_037740,1,0,0
NCLIV_037760,1,0,0
NCLIV_037800,1,0,1
NCLIV_037850,0,0,0
NCLIV_037890,1,0,0
NCLIV_037910,1,1,0
NCLIV_037990,1,0,0
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NCLIV_038040,0,0,0
NCLIV_038090,0,1,0

#chromosome IX

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NCLIV_038490,0,0,0
NCLIV_038500,0,0,0
NCLIV_038560,1,0,0
NCLIV_038580,1,0,0
NCLIV_038700,1,0,0
NCLIV_038720,0,0,0
NCLIV_038780,1,0,1
NCLIV_038810,1,0,0
NCLIV_038820,0,0,0
NCLIV_038850,1,0,1
NCLIV_038890,1,0,1
NCLIV_039150,0,1,0
NCLIV_039200,1,0,1
NCLIV_039350,1,0,1
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NCLIV_039480,0,0,0
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NCLIV_039740,0,0,0
NCLIV_039780,1,0,0
NCLIV_039790,1,0,0
NCLIV_039810,0,0,0
NCLIV_039830,1,0,0
NCLIV_040000,1,0,0
NCLIV_040010,1,0,0
NCLIV_040040,1,0,0
NCLIV_040100,1,0,0
NCLIV_040210,1,0,0
NCLIV_040230,1,0,1

NCLIV_040260,1,0,0
NCLIV_040300,1,0,0
NCLIV_040320,0,0,0
NCLIV_040370,1,1,0
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NCLIV_040560,0,0,0
NCLIV_040600,1,0,0
NCLIV_040610,0,0,0
NCLIV_040620,0,0,0
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NCLIV_040660,0,0,0
NCLIV_040680,1,0,0
NCLIV_040700,0,0,0
NCLIV_040820,0,0,0
NCLIV_040850,1,0,0
NCLIV_041090,1,0,0
NCLIV_041200,1,0,0
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GENES with alternative start codons

ID=NCLIV_000290	+	3	AGGAATCGCATGGCACCGGC	Ia	G..ATGG
ID=NCLIV_000490	-	9	GGTCTCCCATGGGGATGCC	Ia	A..ATG
ID=NCLIV_001150	-	3	CGGCGTGTGATGCCCGGTA	Ia	[CT]..ATG[ACT]
ID=NCLIV_002070	-	11	TTTTCCGCAATGCACGCTTC	Ia	[CT]..ATG[ACT]
ID=NCLIV_002860	-	7	TTGAAGCTGATGGCGAGGCG	Ib	G..ATGG
ID=NCLIV_003170	+	9	TTTTTCCCAATGGCTTTACT	Ib	[CT]..ATG[ACT]
ID=NCLIV_003460	-	3	CTTCAGGGCATGCATTCTTT	Ib	A..ATG
ID=NCLIV_004280	-	12	CCGCGCGACATGACTGCGCT	Ib	A..ATG
ID=NCLIV_004870	-	15	CTCTTTTTTATGGGGCCGGA	II	A..ATG
ID=NCLIV_005550	-	11	TCGAGGGAAATGCGCCGGGG	II	A..ATG
ID=NCLIV_005610	-	8	CGCAATCACATGGGAATCGT	II	A..ATG
ID=NCLIV_006020	-	7	GGCCCTCGAATGGACGTAGC	II	[CT]..ATG[ACT]
ID=NCLIV_006280	-	7	CTTCCCTCGATGGGGGATCC	II	[CT]..ATG[ACT]
ID=NCLIV_006400	+	4	CCCACCCAATGGTCAACAC	II	A..ATG
ID=NCLIV_007100	+	8	CCGGCGGACATGTTGCCTGA	III	[CT]..ATG[ACT]
ID=NCLIV_007610	+	10	CTTCTGTGATGGCGAGAGC	III	A..ATG
ID=NCLIV_007620	-	5	GTCTCCTCAATGGATTTTGG	III	[CT]..ATG[ACT]
ID=NCLIV_008010	+	10	CGAGGCCCAATGGAGAAAAA	III	A..ATG
ID=NCLIV_008750	-	2	ACAACAGGCATGAGGGCTAC	III	[CT]..ATG[ACT]
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ID=NCLIV_009660	-	2	GCCGTGCGCCATGTGCGGTAG	IV	[CT]..ATG[ACT]
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ID=NCLIV_011740	+	5	CCTGTTGCAATGTCTTCTC	IV	[CT]..ATG[ACT]
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ID=NCLIV_012150	-	15	GTCGTGTGAATGGGGTGCAC	IV	A..ATG
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ID=NCLIV_013350	+	2	ACTCTTGCAATGCCTCGTCC	V	[CT]..ATG[ACT]
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ID=NCLIV_016500	+	6	AAATCCGAGATGCTCGAAGT	VI	[CT]..ATG[ACT]
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ID=NCLIV_019770	+	6	CTATACTTGATGGAGAAAAG	VIIa	A..ATG
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ID=NCLIV_032650	+	8	GTTGCACCGATGGCCGTTCT	VIII	A..ATG
ID=NCLIV_032730	-	8	GATGGCGAGATGATCGACCA	VIII	[CT]..ATG[ACT]
ID=NCLIV_033680	+	6	GGAACCGCGATGCCAGCCGC	VIII	A..ATG
ID=NCLIV_033820	+	6	CGCAAATTTATGGAGATATG	VIII	[CT]..ATG[ACT]
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ID=NCLIV_052360	-	7	TGTGCGTCCATGGCGACATC	X	[CT]..ATG[ACT]
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ID=NCLIV_053970	-	11	TGCCGACAGATGGAGGCCTT	XI	A..ATG
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ID=NCLIV_065420	+	6	AACTCCGACATGCCTCCTCA	XII	[CT]..ATG[ACT]
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#####

D. Noncompliant genes that have RNA-Seq evidence but no alternative compliant start codon

Columns:1= ID :2= homology evidence 3=Number of possible exon errors (i.e. RNA-Seq evidence different to annotation)

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NCLIV_068270	0	
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E. Protein product for noncompliant genes with RNA-Seq evidence

Notes: report does not include putative or uncharacterised proteins

Genes with "<< Possible error in annotation" denote that the RNA-Seq evidence suggests an exon is incorrectly annotated

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Gene names	Entry	Protein names	Protein existence
NCLIV_040040	F0VBE5	GrpE protein homolog	Inferred from homology << Possible error in annotation
NCLIV_025680	F0VGD6	Secreted alpha/beta hydrolase superfamly protein,related	Predicted << Possible error in annotation
NCLIV_063630	F0VQE0	Metallo-beta-lactamase family protein, related	Predicted
NCLIV_037760	F0VJT3	Rhomboid-6, isoform A, related (EC 3.4.21.-)	Predicted << Possible error in annotation
NCLIV_052990	F0VLC2	Glycosyltransferase family protein, related	Predicted
NCLIV_041090	F0VBQ0	Sulfhydryl oxidase (EC 1.8.3.2)	Inferred from homology
NCLIV_050070	F0VKH8	Fructose-1,6-bisphosphatase,related (EC 3.1.3.11)	Predicted
NCLIV_025940	F0VGG1	DNA-directed RNA polymerase I 16 kDa polypeptide,related	Predicted
NCLIV_041690	F0VBW0	Ubiquitin carboxyl-terminal hydrolase (EC 3.4.19.12) (Fragment)	Inferred from homology
NCLIV_046690	F0VLV9	VASA RNA helicase, related	Predicted
NCLIV_017590	F0VE24	Mitochondrial carrier protein-like, related	Inferred from homology
NCLIV_066710	F0VR98	Cation efflux system permease, related	Predicted << Possible error in annotation
NCLIV_057200	F0VNK1	AT4G21860 protein, related	Predicted
NCLIV_034580	F0VIW5	DNA-directed RNA polymerase (EC 2.7.7.6)	Inferred from homology
NCLIV_019430	F0VEL0	Ubiquitin carrier protein, related (EC 6.3.2.-)	Inferred from homology
NCLIV_001090	F0V7C4	Cora-like Mg ²⁺ transporter domain-containing protein, related	Predicted
NCLIV_015850	F0VDK0	AT4g32400/F8B4_100, related	Inferred from homology
NCLIV_034450	F0VIV2	Exonuclease 3'-5' domain-like-containing protein 1, related	Predicted << Possible error in annotation
NCLIV_065390	F0VQW6	Bifunctional dihydrofolate reductase-thymidylate synthase, related	Inferred from homology << Possible error in annotation
NCLIV_027860	F0VH03	Ferrochelatase, related (EC 4.99.1.1)	Inferred from homology
NCLIV_059580	F0VP87	Peptide deformylase, related	Inferred from homology
NCLIV_054150	F0VMP2	Ubiquitin-conjugating enzyme, related	Predicted
NCLIV_053290	F0VMF7	ORF73, related	Predicted
NCLIV_014260	F0VDB7	Serine/threonine-protein phosphatase (EC 3.1.3.16)	Inferred from homology
NCLIV_022610	F0VFH8	Inosine triphosphate pyrophosphatase (ITPase) (Inosine triphosphatase) (EC 3.6.1.19) (Non-canonical purine NTP pyrophosphatase)	Inferred from homology
NCLIV_034820	F0VIZ0	Sugar transporter, MFS superfamily, related	Inferred from homology
NCLIV_014190	F0VDB0	Kynurenine 3-monooxygenase and related flavoprotein monooxygenases (ISS), related	Predicted
NCLIV_058790	F0VP10	Os09g0371300 protein, related	Predicted << Possible error in annotation
NCLIV_066320	F0VR59	Zn-finger in ubiquitin-hydrolases and other protein, related	Predicted
NCLIV_011930	F0V9W4	Ribosome biogenesis protein BOP1 homolog	Inferred from homology << Possible error in annotation
NCLIV_041300	F0VBS1	C1orf123, related	Predicted << Possible error in annotation
NCLIV_043320	F0VCD0	Rna recognition motif (RRM)-containing protein,related	Predicted
NCLIV_013860	F0VD77	F2J6.5 protein, related	Predicted << Possible error in annotation
NCLIV_006140	F0V8U7	Ubiquitin, related	Predicted << Possible error in annotation
NCLIV_022920	F0VFK9	Renin, related	Inferred from homology << Possible error in annotation<< Possible error in annotation
NCLIV_047220	F0VM12	Calcium-dependent protein kinase, related	Predicted << Possible error in annotation
NCLIV_042170	F0VC08	Phd finger protein BR140/LIN-49, related	Predicted
NCLIV_010950	F0VAD8	Atp-binding protein, Mrp/Nbp35 family, related	Predicted
NCLIV_035720	F0VJ80	Predicted CDS Pa_6_6770, related	Predicted
NCLIV_014440	F0VDD5	Gelation factor, related	Predicted
NCLIV_003980	F0V873	50s ribosomal protein L28, related	Predicted
NCLIV_025880	F0VGF5	Conserved possible MUS81 endonuclease, related	Predicted
NCLIV_024860	F0VG53	Proteasome/cyclosome repeat family protein,related	Predicted
NCLIV_002480	F0V7R9	Cbr-DPY-23 protein, related	Predicted
NCLIV_043930	F0VAS0	Kelch repeat-containing proteins that is fused to a HSP90-like ATPase, related	Predicted
NCLIV_047440	F0VM35	DNA-directed RNA polymerase (EC 2.7.7.6)	Inferred from homology
NCLIV_011210	F0VAG5	Transketolase, related	Predicted
NCLIV_011200	F0VAG4	ATP-dependent Clp protease proteolytic subunit	Inferred from homology
NCLIV_050560	F0VKM7	LOC100145439 protein, related	Predicted
NCLIV_046130	F0VLQ3	Tubulin gamma chain	Inferred from homology
NCLIV_043400	F0VCF0	Proteasome subunit p58, related	Predicted << Possible error in annotation
NCLIV_027220	F0VGT9	Carbon catabolite repressor protein, related	Predicted

NCLIV_036530	F0VJG0	RENT1_NEUCR Regulator of nonsense transcripts 1 homolog ref XP_323582.1 h (ISS), related	
		Predicted	
NCLIV_008980	F0V9K3	F21m12.37 protein, related	Predicted
NCLIV_031700	F0VI22	DEHA2G03652p, related	Predicted << Possible error in annotation
NCLIV_056080 (EC 2.7.11.24)	F0VN88	cDNA FLJ33690 fis, clone BRAWH2002967, highly similar to Mitogen-activated protein kinase 3, related	
		Predicted	
NCLIV_0224 annotation	F0VFG3	Zinc finger (C2H2 type) domain-containing protein	Predicted << Possible error in annotation
NCLIV_040100	F0VBF1	Loc549482 protein, related	Predicted
NCLIV_0207	F0VEZ7	Cyclic nucleotide-binding domain containing protein	Predicted
NCLIV_009590	F0VA01	Gi20748, related	Predicted
NCLIV_005120	F0V8J5	Dsptp1 protein, related	Predicted
NCLIV_013030	F0VCZ5	Nitrogen-fixing NifU, C-terminal, related	Predicted
NCLIV_021770	F0VF94	Replication factor-A C terminal domain-containing protein	Predicted
NCLIV_039660	F0VBA7	Gf17338, related	Predicted
NCLIV_066165	F0VR43	Complete genome, chromosome XII	Predicted << Possible error in annotation
NCLIV_004820	F0V8G4	Phospho-2-dehydro-3-deoxyheptonate aldolase, related	Predicted << Possible error in annotation
NCLIV_022100	F0VFC7	DnaI domain containing protein, related	Predicted
NCLIV_001210	F0V7D9	Klla0c10076p, related	Predicted
NCLIV_024040	F0VFX1	Aminotransferase, related (EC 2.6.1.-)	Predicted
NCLIV_031610	F0VII3	Glucosamine--fructose-6-phosphate aminotransferase (Isomerizing), related (EC 2.6.1.16)	
		Predicted	
NCLIV_049945	F0VKG5	Complete genome, chromosome X	Predicted << Possible error in annotation
NCLIV_000280	F0V739	Ranbp1 domain containing protein, related	Predicted
NCLIV_027890	F0VH06	Peptidyl-prolyl cis-trans isomerase (Fragment)	Predicted
NCLIV_015000	F0VCL6	Os05g0488800 protein, related	Predicted